Pioneer

Service Manual

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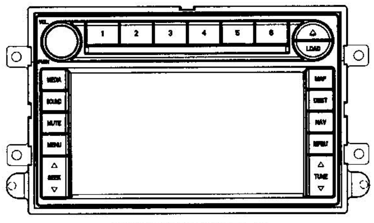
AVIC-XD1057ZF/UC

ORDER NO.
CRT3458

RECEIVER ASSY-RADIO WITH NAVIGATION DISPLAY

AVIC-XD1057ZF/UC
AVIC-XD1557ZF/UC
AVIC-XD1957ZF/UC

VEHICLE	DESTINATION	PRODUCED AFTER	OEM PARTS No.	ID No.	PIONEER MODEL No.
Explorer , Mountaineer	U.S.A.	May 2005	6L2T-18K931-AG	-	AVIC-XD1057ZF/UC
Zephyr	U.S.A.	May 2005	6H6T-18K931-AJ	-	AVIC-XD1557ZF/UC
Freestyle	U.S.A.	May 2005	6F9T-18K931-AB	-	AVIC-XD1957ZF/UC
500 ,Montego (Mercury)	U.S.A.	May 2005	6G1T-18K931-AB	-	AVIC-XD1957ZF/UC

This service manual should be used together with the following manual(s):

Model No.	Order No.	Mech.Module	Remarks
CX-3016	CRT3056	MS3	DVD Mech. Module:Circuit Description, Mech. Description, Disassembly
CX-3116	CRT3467	G3	CD Mech. Module:Circuit Description, Mech. Description, Disassembly

For details, refer to "Important Check Points for Good Servicing".

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PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
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SAFETY INFORMATION

CAUTION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

This product contains lead in solder and certain electrical parts contain chemicals which are known to the state of California to cause cancer, birth defects or other reproductive harm.
Health & Safety Code Section 25249.6 - Proposition 65

This product contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance: www.eiae.org.

● DVD and CD section precaution ❗

1. Before disassembling the unit, be sure to turn off the power. Unplugging and plugging the connectors during power-on mode may damage the ICs inside the unit.
2. To protect the pickup unit from electrostatic discharge during servicing, take an appropriate treatment (shorting-solder) by referring to "the DISASSEMBLY" .
3. After replacing the pickup unit, be sure to skew adjustment.
4. During disassembly, be sure to turn the power off since an internal IC might be destroyed when a connector is plugged or unplugged.

DVD ROM™ DVD ROM™ COMPACT disc DIGITAL AUDIO COMPACT disc DIGITAL AUDIO TEXT

DVD is a trademark of DVD Format/Logo Licensing Corporation.

[Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol.
Please be sure to confirm and follow these procedures.

1. Product safety

Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification(addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris.
Soldering should be finished with the proper quantity. (Refer to the example)

④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs.
In addition, be sure that there are no pinched wires, etc.

⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages.
If you find a damaged power cord, please exchange it with a suitable one.

⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries.
Please pay attention to your surroundings and repair safely.

2. Adjustments

To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification.
Adjustments should be performed in accordance with the procedures/instructions described in this manual.

3. Lubricants, Glues, and Replacement parts

Use grease and adhesives that are equal to the specified substance.
Make sure the proper amount is applied.

4. Cleaning

For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

5. Shipping mode and Shipping screws

To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1. SPECIFICATIONS

General

Power source	13.5V DC(10.0V-16.0V allowable) 9-10V=MSCAN function only,10-16V=normal operation
Grounding system	Negative type
Backup current	3.0mA or less

FM tuner

Frequency	87.75–107.9 MHz
S/N(Noise with A-WEIGHT),20kHz LPF	65dB or more
Distortion(1kHz)	1.0% or less
IF interference	105dB more
Image interference	45dB more
Frequency response(40/1kHz Pre-emphasis 75µS)	0.0 ± 2dB
Frequency response(12.5k/1kHz Pre-emphasis 75µS)	0.0 ± 2.5dB
FM sinad	30dB or more
Separation(80dBµ 400Hz)	35dB ± 10dB
Separation(80dBµ 10kHz)	30dB ± 10dB

AM tuner

Frequency	530–1710 kHz
S/N(Noise with A-WEIGHT),20kHz LPF	50dB more
S/N 20dB usable sens	33dBµ or less
Distortion(Mod:30%)	2.0% or less
Search sensitivity(ILL OFF)	35dBµ ± 4dB
IF interference	75dB more

CD player

Signal format	Sampling frequency : 44.1kHz Number of quantization bits : 16;linear
S/N ratio(IHF-A,20kHz LPF)	65dB or more
Distortion(20kHz LPF)	0.2% or less

DVD player

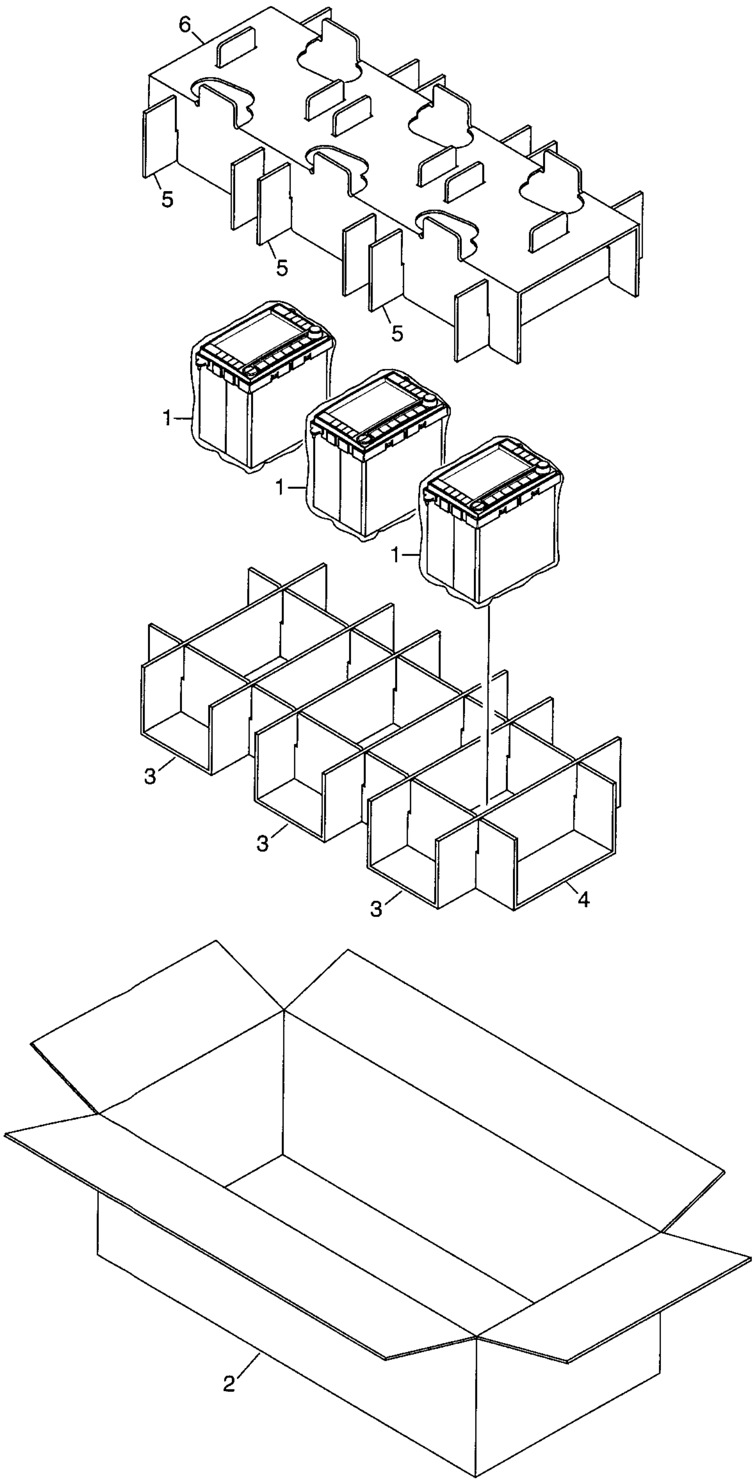
Sytem	DVD-ROM
Usable Discs	DVD-ROM
Signal format	Sampling frequency: 44.1/48/96 kHz Number of quantization bits: 16/20/24; linear

2. EXPLODED VIEWS AND PARTS LIST

NOTES : • *Parts marked by "* " are generally unavailable because they are not in our Master Spare Parts List.*

- *The ⚠ mark found on some component parts indicatesthe importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Screw adjacent to▽mark on the product are used for disassembly.*
- *For the applying amount of lobricants or glue, follow the instructions in this manual. (In the case of no amount instructions,apply as you think it appropriate.)*

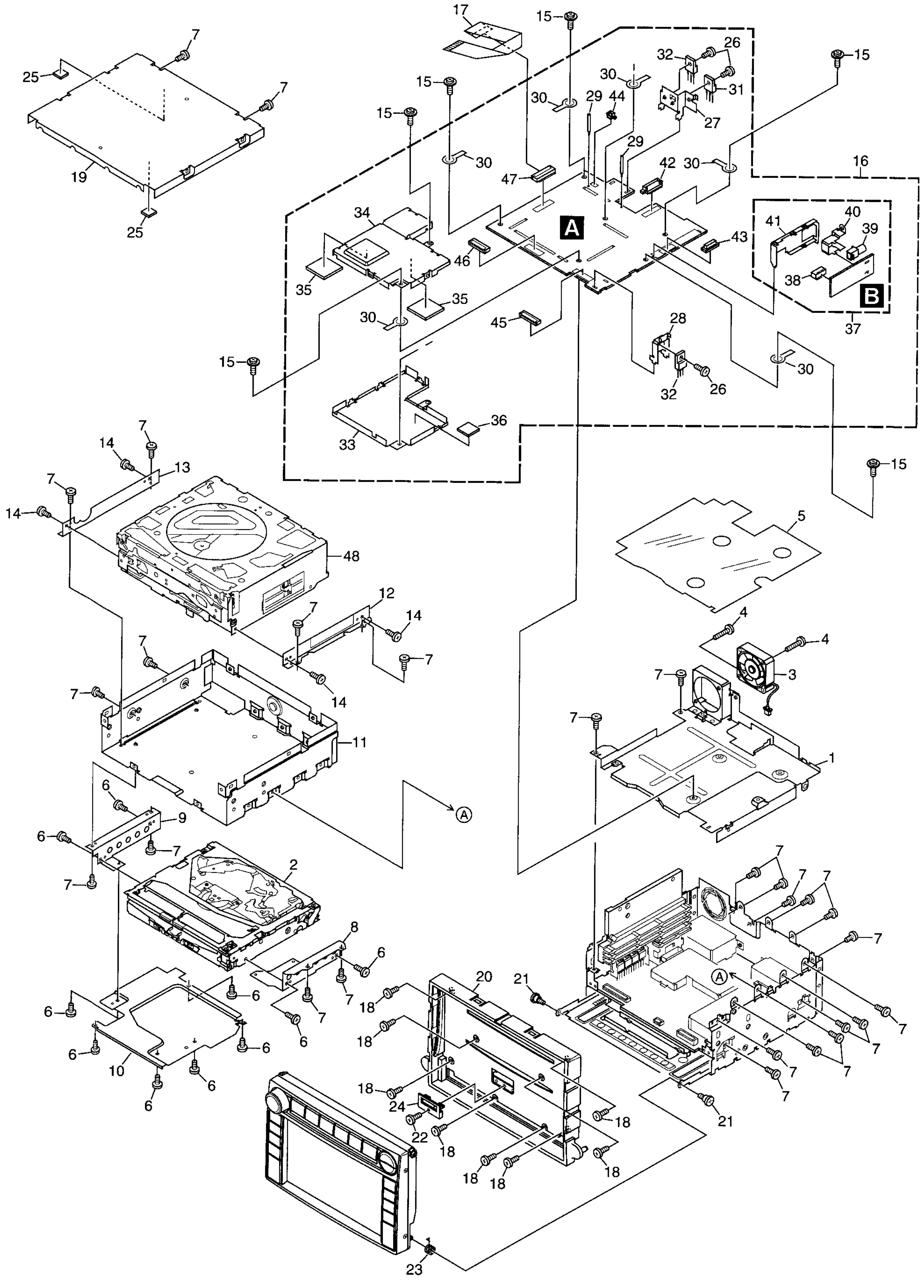
2.1 PACKING



PACKING SECTION PARTS LIST

Mark	No.	Description	Part No.
*	1	Polyethylene Bag	CEG1317
	2	Contain Box(XD1057ZF)	CHL5403
		Contain Box(XD1557ZF)	CHL5404
		Contain Box(XD1957ZF)	CHL5564
	3	Protector	CHP2924
	4	Protector	CHP2925
	5	Protector	CHP2926
	6	Protector	CHP2927

2.2 EXTERIOR(1)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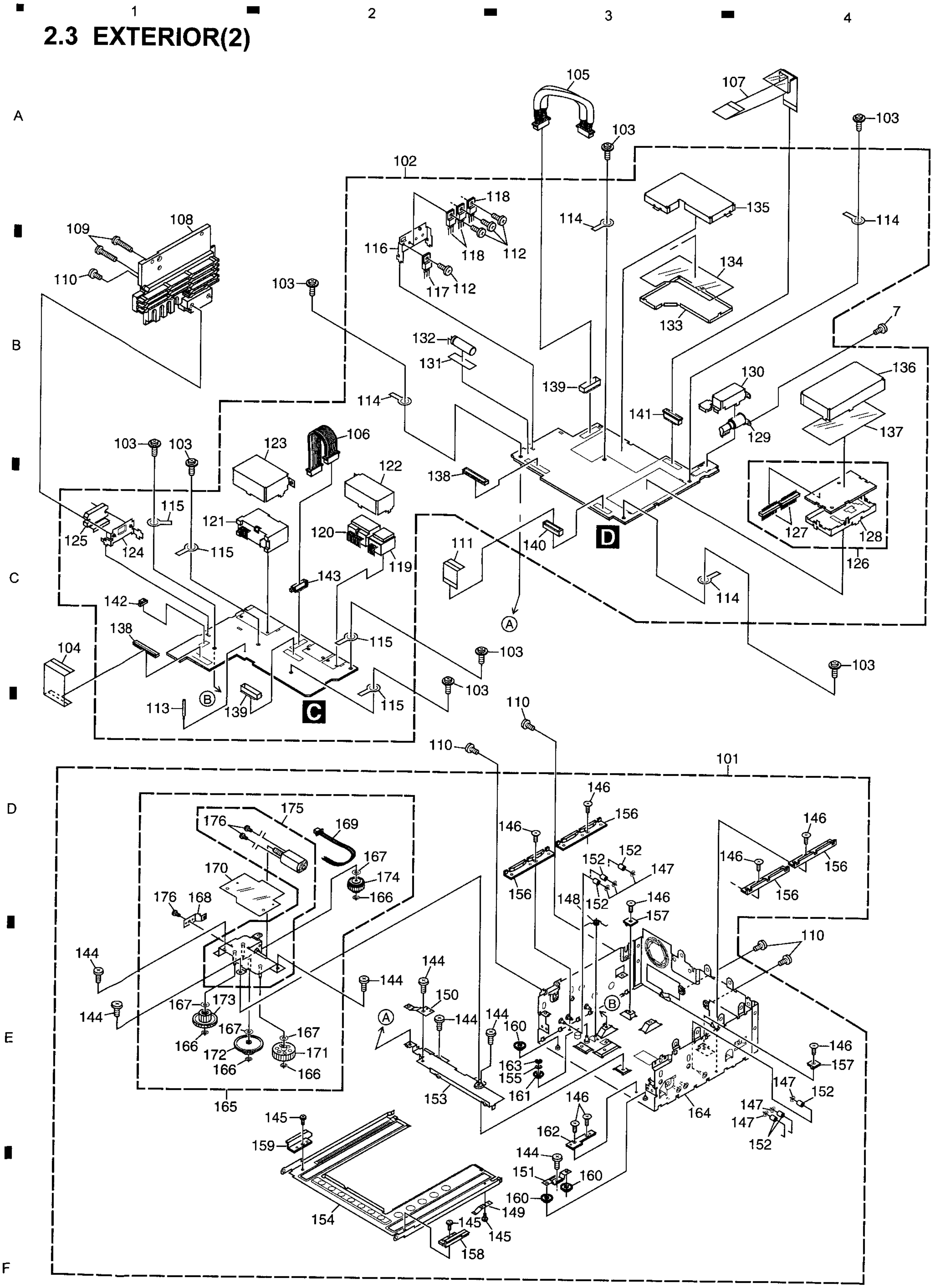
EXTERIOR(1) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Chassis Unit	CXC3213
	2	DVD Mechanism Module(MS3)	CXK6332
	3	Fan Motor(M1)	CXM1295
	4	Screw(M2.6x10)	CBA1798
	5	Insulator	CNM8906
	6	Screw(M2x3)	CBA1527
	7	Screw	BMZ26P040FTC
	8	Bracket	CND2293
	9	Bracket	CND2294
	10	Shield	CND2324
	11	Chassis Unit	CXC3280
	12	Bracket	CND2291
	13	Bracket	CND2292
	14	Screw	BMZ30P050FTC
	15	Screw	ISS26P060FTC
	16	Navi Unit	CWM9494
	17	FFC	CDE7616
	18	Screw(M2.6x4)	CBA1828
	19	Case	CNB3034
	20	Panel Unit(XD1057ZF,XD1957ZF)	CXC3634
		Panel Unit(XD1557ZF)	CXC3635
	21	Screw	CBA1865
	22	Screw(M2x3)	CBA1864
	23	Spring	CBH2787
	24	Cover	CNV8134
	25	Cushion	CNM9684
	26	Screw	BMZ26P060FTC
	27	Holder	CND2307
	28	Holder	CND2308
	29	Clamper(CN3507,3508)	CEF1046
	30	Terminal(CN3510-3515)	CKF1064
	31	Transistor(Q3513)	2SD2375
	32	Transistor(Q3501,3514)	2SB1185
	33	Shield	CND2306
	34	Shield	CND2305
	35	Sheet	CNM9256
	36	Sheet	CNM9298
	37	GPS Unit	CWX3019
	38	Connector(CN471)	CKS5204
	39	Connector(CN401)	CKX1081
	40	Holder	CND2309
	41	Shield	CND2310
	42	Connector(CN3704)	CKS4834
	43	Connector(CN3701)	CKS4065
	44	Connector(CN3502)	CKS4822
	45	Connector(CN703)	CKS4052
	46	Connector(CN601)	CKS5115
	47	Connector(CN2)	DKN1240
	48	Mechanism Module Unit(Service)	CXX1932

2.3 EXTERIOR(2)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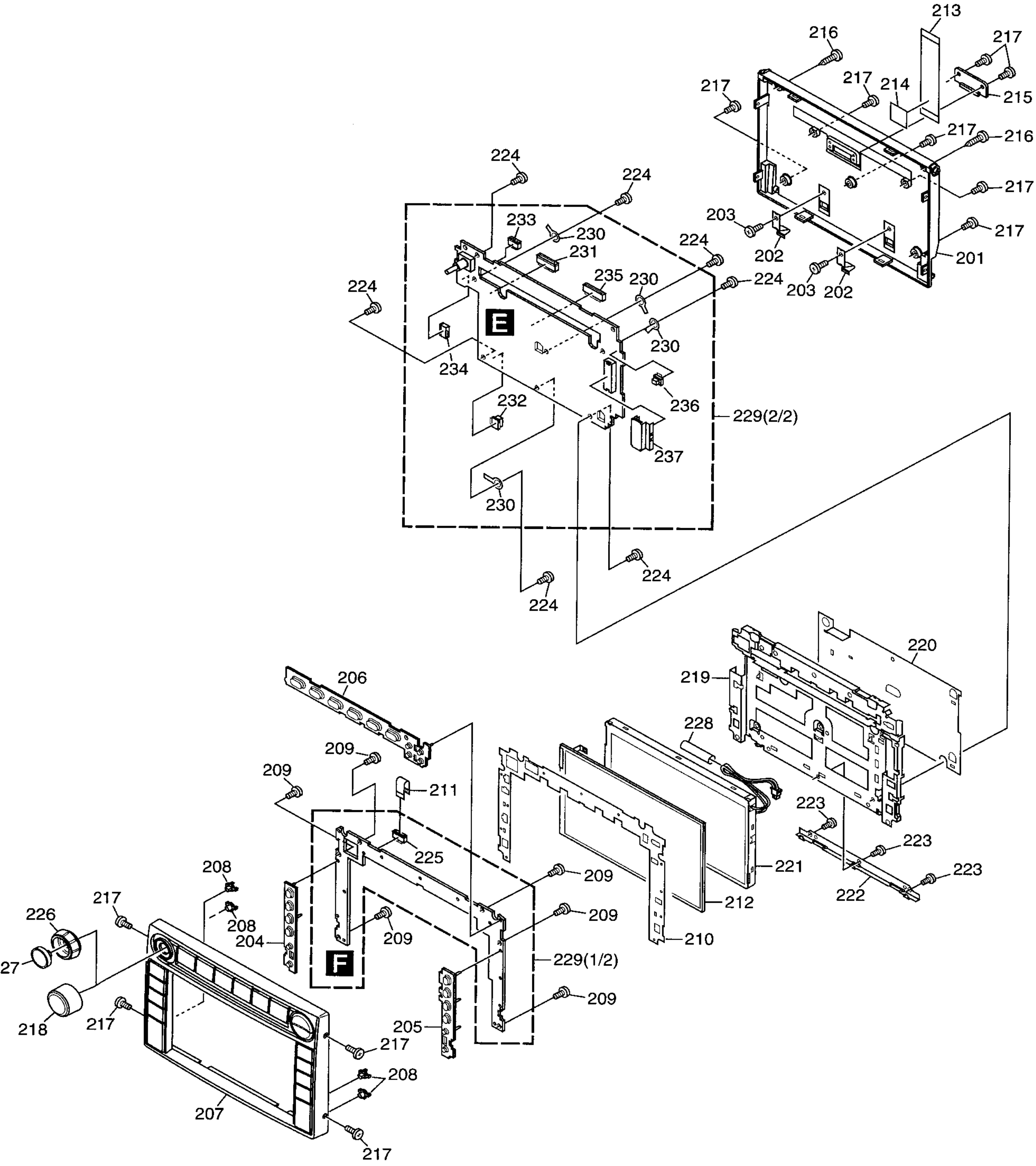
EXTERIOR(2) SECTION PARTS LIST

Mark	No.	Description	Part No.
	101	Chassis Drive Assy	CXC3077
	102	Audio Compound Unit (XD1057ZF,XD1557ZF)	CWM9495
		Audio Compound Unit(XD1957ZF)	CWN1346
	103	Screw	ISS26P060FTC
	104	FFC	CDE7617
	105	Cord Assy	CDE7620
	106	Cord Assy	CDE7619
	107	FFC	CDE7677
	108	Heat Sink	CNR1759
	109	Screw	BMZ26P160FTC
	110	Screw	BMZ26P040FTC
	111	FFC	CDE7618
	112	Screw	BMZ26P060FTC
	113	Clamper	CEF1046
	114	Terminal(CN1001,1002,1401,1402)	CKF1064
	115	Terminal(CN2255-2258)	CKF1064
	116	Holder	CND2300
	117	Transistor(Q1016)	2SD2375
	118	Transistor(Q1001,1004,1010)	2SB1185
	119	Connector(CN2041)	CKM1431
	120	Plug(CN2021)	CKM1384
	121	Connector(CN2001)	CKM1454
	122	Holder	CND2296
	123	Holder	CND2297
	124	Holder	CND2298
	125	IC(IC2421)	TDA7563
	126	FM/AM Tuner Unit	CWE1822
	127	Connector(CN101,102)	CKS4653
	128	Holder	CND2145
	129	Connector(ANT1401)	CKX1082
	130	Holder	CND2299
	131	Insulator	CNM9478
	132	Capacitor(C1035)	CCH1486
	133	Shield	CND2304
	134	Insulator	CNM9189
	135	Shield	CND2303
	136	Shield	CND2301
	137	Insulator	CNM8942
	138	Connector(CN1101,2051)	CKS4872
	139	Connector(CN1102,2061)	CKS4812
	140	Connector(CN1301)	CKS5075
	141	Connector(CN1201)	CKS5005
	142	Connector(CN2251)	CKS4977
	143	Connector(CN2091)	CKS4834
	144	Screw(M2.6x2.5)	CBA1737
	145	Screw(M2x3)	CBA1762
	146	Screw	CBA1862
	147	Washer	CBF1038

Mark	No.	Description	Part No.
	148	Spring	CBH2788
	149	Spring	CBL1657
	150	Spring	CBL1677
	151	Spring	CBL1678
	152	Collar	CLA4488
	153	Bracket	CND2239
	154	Frame	CND2240
	155	Spacer	CNM9479
	156	Holder	CNV8079
	157	Holder	CNV8081
	158	Holder	CNV8205
	159	Holder	CNV8206
	160	Roller	CNV8248
	161	Roller	CNV8249
	162	Holder	CNV8250
	163	Washer	YE15FTC
	164	Chassis Unit	CXC3078
	165	Drive Assy	CXC3079
	166	Washer	CBF1039
	167	Spacer	CNM9278
	168	Spring	CBL1680
	169	Cord Assy	CDE7678
	170	Insulator	CNM8828
	171	Gear	CNR1763
	172	Gear	CNV8082
	173	Gear	CNV8269
	174	Torque Limitter Assy	CXC3081
	175	Motor Unit(M2)	CXC3854
	176	Screw	JGZ20P025FTC

2.4 EXTERIOR(3)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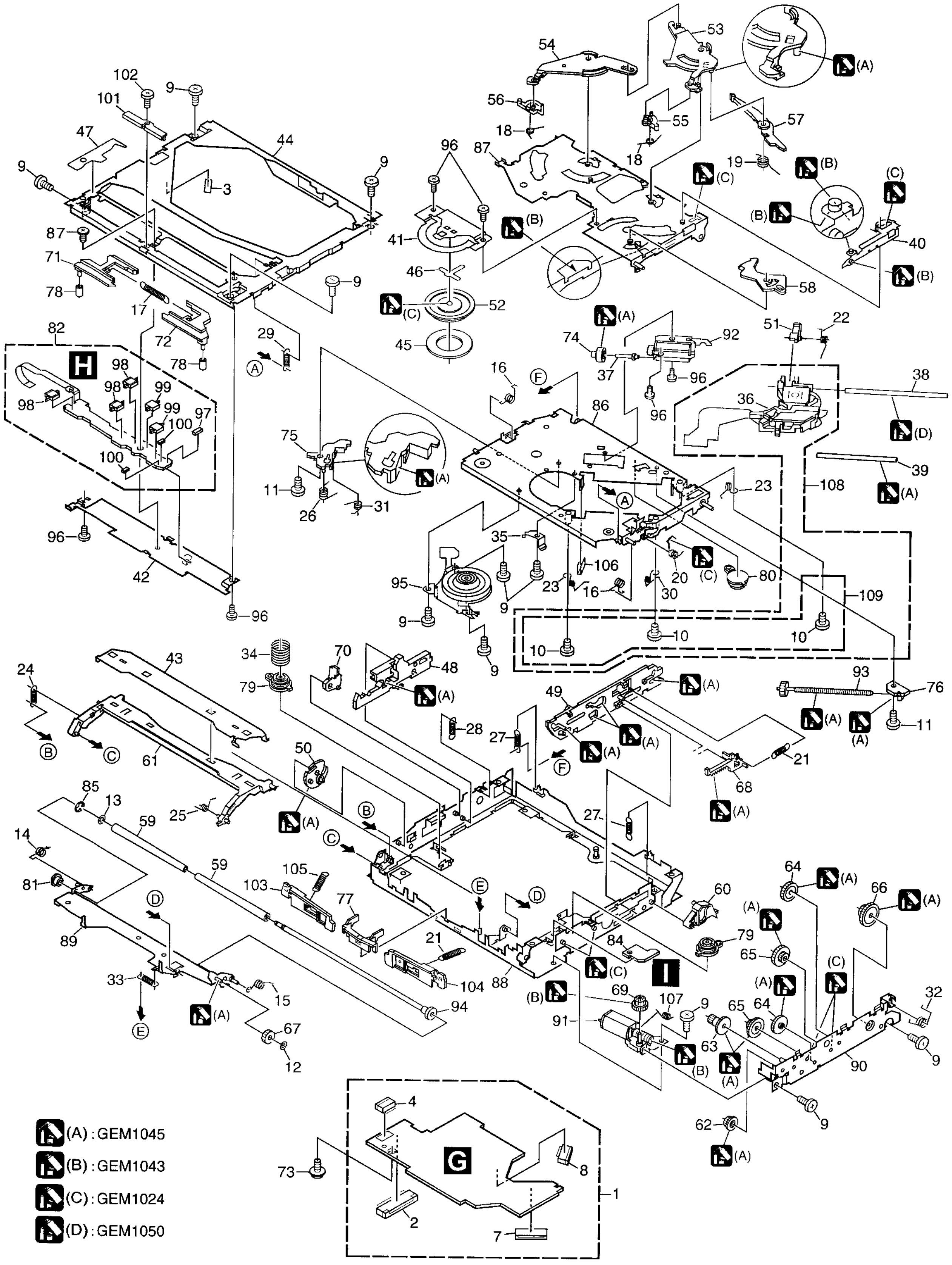
EXTERIOR(3) SECTION PARTS LIST

Mark	No.	Description	Part No.
	201	Case Unit	CXC3100
	202	Spring	CBL1673
	203	Screw	BMZ20P020FTC
	204	Rubber	CNV8133
	205	Rubber	CNV8179
	206	Rubber	CNV8180
	207	Grille Assy(XD1057ZF,XD1957ZF)	CXC3847
		Grille Assy(XD1557ZF)	CXC3848
	208	Actuator	CNV8407
	209	Screw	BPZ20P060FTC
	210	Insulator	CNM8927
	211	FFC	CDE7622
	212	Touch Panel	CSX1072
	213	Flexible PCB	CNP8015
	214	Cover	CNM9472
	215	Guide	CNV5169
	216	Screw	BPZ20P100FTB
	217	Screw	CBA1812
	218	Knob Unit(XD1057ZF,XD1957ZF)	CXC3101
	219	Bracket	CND2252
	220	Insulator	CNM8995
	221	LCD Panel	CWX3017
	222	Bracket	CND2253
	223	Screw	BMZ20P020FTC
	224	Screw	CBA1829
	225	Connector(CN3402)	CKS3993
	226	Knob(XD1557ZF)	CAA2840
	227	Button Unit(XD1557ZF)	CXC3111
	228	Tube	CDM1035
	229	Monitor Compound Unit (XD1057ZF,XD1957ZF)	CWM9497
		Monitor Compound Unit(XD1557ZF)	CWM9579
	230	Terminal(CN3102,3103,3107,3108)	CKF1064
	231	Connector(CN3104)	CKS5114
	232	Connector(CN3101)	CKS4496
	233	Connector(CN3002)	CKS4507
	234	Connector(CN3004)	CKS5105
	235	Connector(CN3001)	CKS5113
	236	Connector(CN3301)	CKS4428
	237	Shield	CND1177

2.5 DVD MECHANISM MODULE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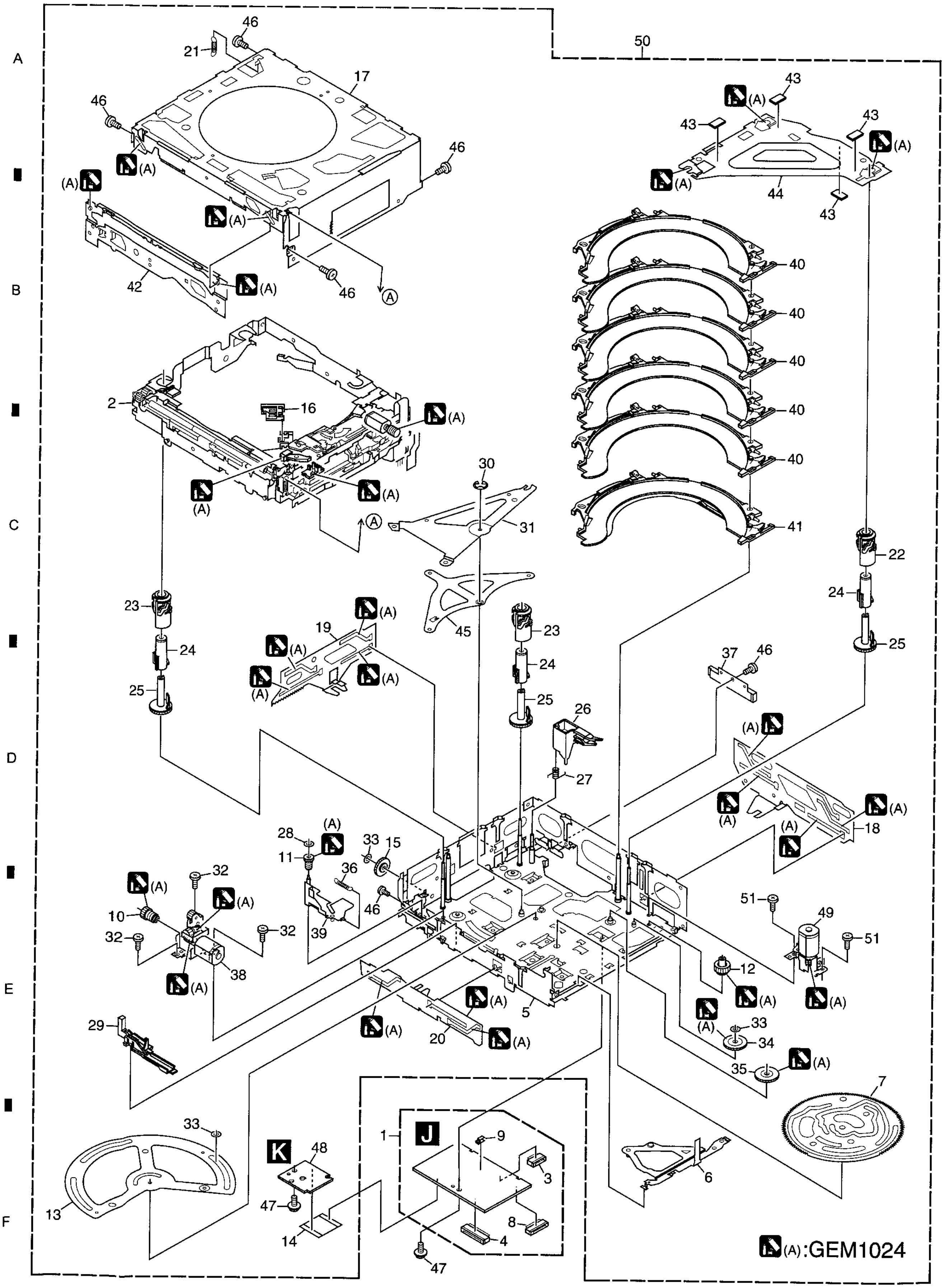
(A) : GEM1045
(B) : GEM1043
(C) : GEM1024
(D) : GEM1050

DVD MECHANISM MODULE SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	DVD Core Unit(MS3R)	CWX3178
	2	Connector(CN601)	CKS5055
	3	Sheet	CNM8697
	4	Connector(CN1202)	CKS5017
	5	•••••	
	6	•••••	
	7	Connector(CN1101)	CKS4842
	8	Connector(CN1201)	CKS5043
	9	Screw	BMZ20P020FTC
	10	Screw(M2 x 3.5)	CBA1571
	11	Screw(M2 x 2.5)	CBA1623
	12	Washer	CBF1038
	13	Washer	CBF1064
	14	Spring	CBH2586
	15	Spring	CBH2587
	16	Spring	CBH2588
	17	Spring	CBH2589
	18	Spring	CBH2590
	19	Spring	CBH2591
	20	Spring	CBH2592
	21	Spring	CBH2593
	22	Spring	CBH2594
	23	Spring	CBH2595
	24	Spring	CBH2596
	25	Spring	CBH2597
	26	Spring	CBH2598
	27	Spring	CBH2599
	28	Spring	CBH2600
	29	Spring	CBH2601
	30	Spring	CBH2602
	31	Spring	CBH2603
	32	Spring	CBH2604
	33	Spring	CBH2605
	34	Spring	CBH2711
	35	Spring	CBL1564
	36	Pickup Unit(Service)	CXX1815
	37	Shaft	CLA3881
	38	Shaft	CLA4206
	39	Shaft	CLA4207
	40	Lever	CNC9933
	41	Holder	CNC9939
	42	Holder	CND2251
	43	Holder	CNC9941
	44	Frame	CND2250
	45	Sheet	CNM6883
	46	Sheet	CNM8283
	47	Sheet	CNM8643
	48	Lever	CNV8076
	49	Lever	CNV8420
	50	Cam	CNV7156
	51	Rack	CNV7157
	52	Clamper	CNV7158
	53	Arm	CNV7159
	54	Arm	CNV7160
	55	Arm	CNV7161
	56	Arm	CNV7162
*	57	Arm	CNV7163
	58	Arm	CNV7164
	59	Roller	CNV7165
	60	Arm	CNV7166
	61	Guide	CNV8093
	62	Gear	CNV7169
	63	Gear	CNV7170
	64	Gear	CNV7171
	65	Gear(Black)	CNV7172
	66	Gear	CNV7173
	67	Gear	CNV7174
	68	Rack	CNV7175
	69	Gear	CNV7176
	70	Arm	CNV8077
	71	Lever	CNV7178
	72	Lever	CNV7179
	73	Screw	IMS20P030FTC
	74	Gear	CNV7181
	75	Holder	CNV7183
	76	Holder	CNV7184
	77	Guide	CNV7745
	78	Roller	CNV7344
	79	Damper	CNV7470
	80	Damper	CNV7471
	81	Collar	CNV7645
	82	Compound Unit(A)	CWX3154
	83	Screw(M1.4xM1.4)	CBA1787
	84	Compound Unit(B)	CWX3156
	85	Washer	YE20FTC
	86	Chassis Unit	CXC3629
	87	Arm Unit	CXB8681
	88	Frame Unit	CXB8683
	89	Arm Unit	CXC4701
	90	Bracket Unit	CXB8685
	91	Motor Unit(LOADING)(M1)	CXC4315
	92	Motor Unit(CARRIAGE)(M2)	CXC4745
	93	Screw Unit	CXB8689
	94	Roller Unit	CXB8690
	95	Motor(SPINDLE)(M3)	CXM1308
	96	Screw	JFZ20P018FTC
	97	Photo-transistor(Q1299)	CPT231SCTD
	98	Switch(S1201)	CSN1069
	99	Spring Switch(S1204)	CSN1070
	100	Resistor(R1298)	RS1/16S0R0J
	101	Guide	CNV7615
	102	Screw(M1.7x1.2)	CBA1572
	103	Arm	CNV7742
	104	Arm	CNV7743
	105	Spring	CBH2710
	106	Spring	CBL1643
	107	Spring	CBH2712
	108	Pickup Unit(Service)(Screw)	GXX1254
	109	Screw Assy	CXX1750

2.6 MECHANISM MODULE UNIT(SERVICE)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(A)
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K
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14
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J
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4
47
6
(A):GEM1024

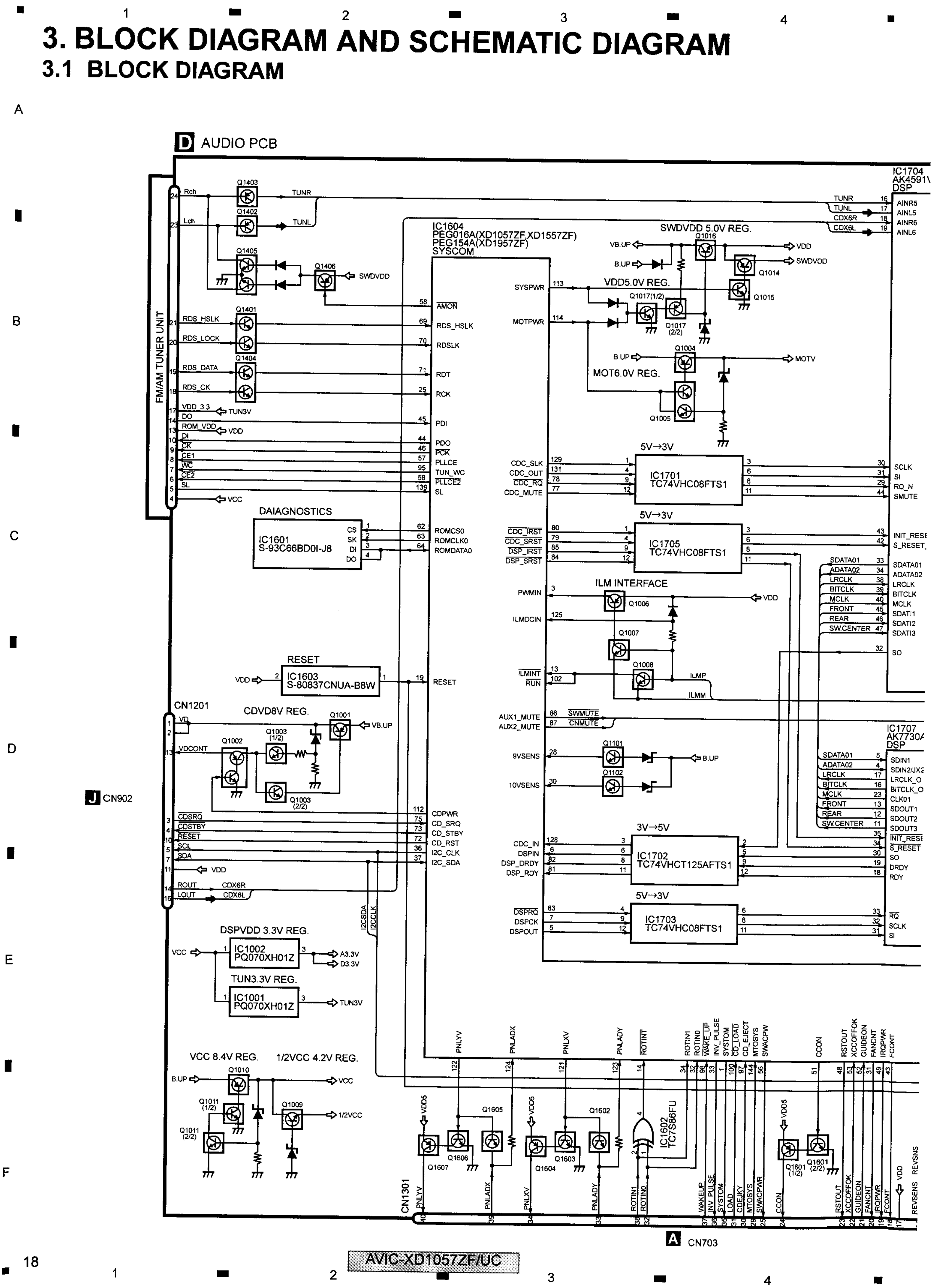
MECHANISM MODULE UNIT(SERVICE) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Control Unit(G3)	CWX2950
	2	Stage Assy(Service)	CXX1934
	3	Connector(CN102)	CKS4937
	4	Connector(CN902)	CKS4914
*	5	Chassis Unit	CXC2394
*	6	Lever Unit	CXC2393
*	7	Cam Gear Unit	CXC2435
	8	Connector(CN101)	CKS4840
	9	Terminal(CN202)	CKF1077
	10	Gear	CNV7856
	11	Gear	CNV7851
	12	Gear	CNV7854
*	13	Gear	CND1924
	14	Flexible PCB	CNP7958
	15	Gear	CND1939
	16	Arm	CNV7869
	17	Case	CND1934
	18	Stair	CND1932
	19	Stair	CND1931
	20	Stair	CND1930
	21	Spring	CBH2731
	22	Cam	CNV7932
	23	Cam	CNV7867
	24	Cam	CNV7868
	25	Cam	CNV7866
	26	Arm	CNV7850
	27	Spring	CBH2732
	28	Washer	CBF1094
	29	Holder	CNV7861
	30	Washer	YE15FTC
*	31	Arm	CND1926
	32	Screw(M2x2.5)	CBA1823
	33	Washer	CBF1064
*	34	Gear	CND1936
*	35	Gear	CND1937
	36	Spring	CBH2720
	37	PCB Assy	CXC3142
	38	Cam Motor Assy(CAM)(M1)	CXC3143
*	39	Lever Unit	CXC2392
	40	Tray Assy	CXC3141
	41	Under Tray Assy	CXC3153
	42	Shutter Assy	CXC3732
	43	Sheet	CNM9455
	44	Holder Unit	CXC2418
*	45	Arm	CND1933
	46	Screw	BMZ20P025FTC
	47	Screw	IMS26P025FTC
	48	PCB Assy	CWX2986
	49	ELV Motor Assy(ELV)(M2)	CXC3144

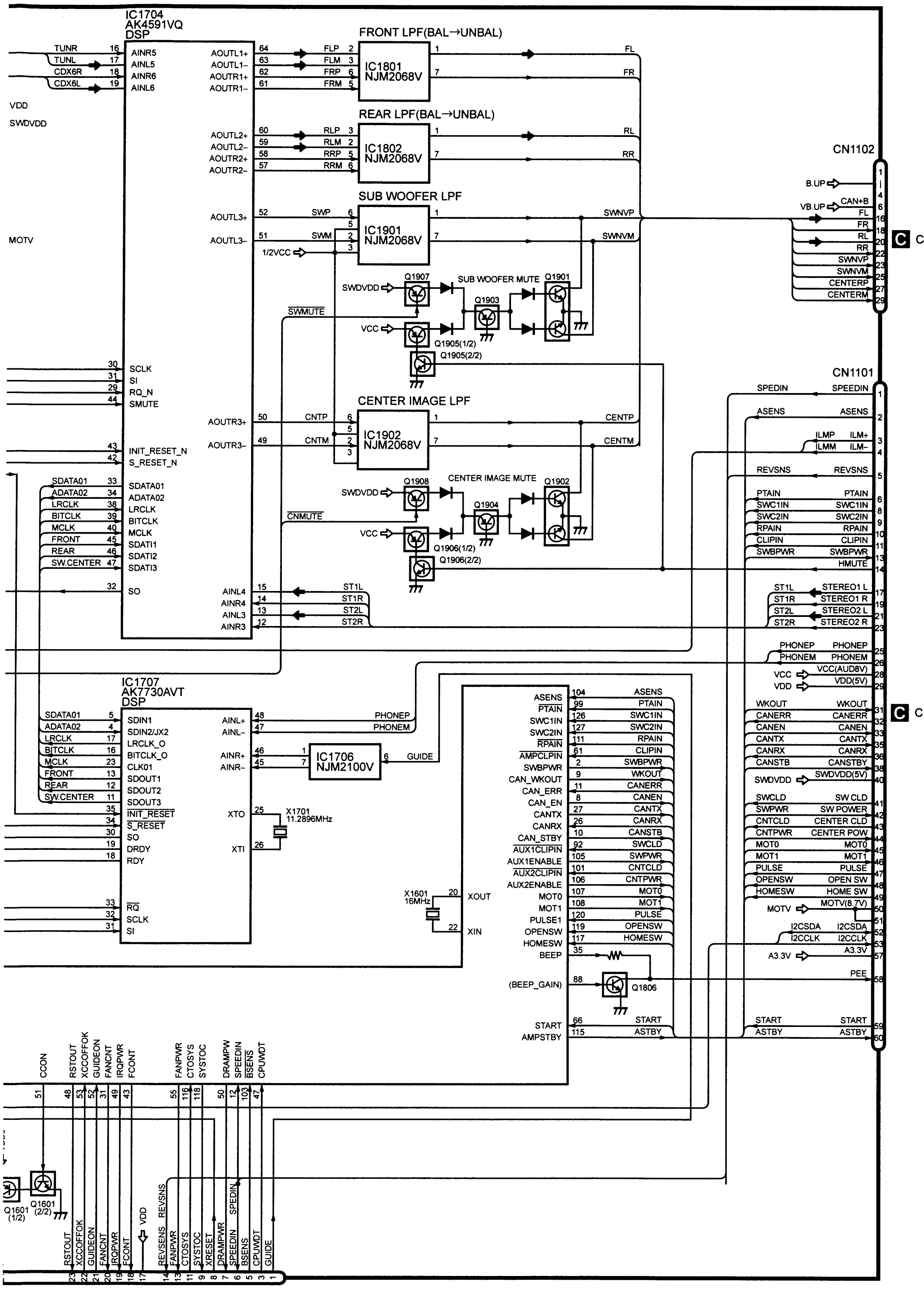
Mark	No.	Description	Part No.
	50	CD Mechanism Unit(Service)	CXX1933
	51	Screw	JFZ20P020FTC

3. BLOCK DIAGRAM AND SCHEMATIC DIAGRAM

3.1 BLOCK DIAGRAM



1
2
3
4
A
B
C
D
E
F
D AUDIO PCB
FM/AM TUNER UNIT
Rch
Lch
Q1403
Q1402
Q1405
Q1406
SWDVDD
TUNR
TUNL
Q1401
RDS_HSLK
RDS_LOCK
Q1404
RDS_DATA
RDS_CK
VDD_3.3
TUN3V
DO
ROM_VDD
VDD
DI
CK
CE1
WC
CE2
SL
VCC
IC1604
PEG016A(XD1057ZF,XD1557ZF)
PEG154A(XD1957ZF)
SYSCOM
AMON
RDS_HSLK
RDSLK
RDT
RCK
PDI
PDO
PCK
PLLCE
TUN_WC
PLLCE2
SL
DAIAGNOSTICS
IC1601
S-93C66BD0I-J8
CS
SK
DI
DO
ROMCS0
ROMCLK0
ROMDATA0
RESET
IC1603
S-80837CNUA-B8W
RESET
CN1201
CDVD8V REG.
VD
VDCONT
Q1001
VB.UP
Q1002
Q1003 (1/2)
Q1003 (2/2)
CDSRQ
CDSTBY
RESET
SCL
SDA
VDD
ROUT
LOUT
CDX6R
CDX6L
CDPWR
CD_SRQ
CD_STBY
CD_RST
I2C_CLK
I2C_SDA
I2CSDA
I2CCLK
J CN902
DSPVDD 3.3V REG.
VCC
IC1002
PQ070XH01Z
A3.3V
D3.3V
TUN3.3V REG.
IC1001
PQ070XH01Z
TUN3V
VCC 8.4V REG.
1/2VCC 4.2V REG.
B.UP
Q1010
VCC
Q1011 (1/2)
Q1011 (2/2)
Q1009
1/2VCC
SWDVDD 5.0V REG.
VB.UP
Q1016
VDD
B.UP
SWDVDD
Q1014
Q1015
SYSPWR
VDD5.0V REG.
Q1017(1/2)
Q1017 (2/2)
MOTPWR
B.UP
Q1004
MOTV
MOT6.0V REG.
Q1005
5V→3V
CDC_SLK
CDC_OUT
CDC_RQ
CDC_MUTE
IC1701
TC74VHC08FTS1
5V→3V
CDC_IRST
CDC_SRST
DSP_IRST
DSP_SRST
IC1705
TC74VHC08FTS1
ILM INTERFACE
PWMIN
Q1006
VDD
ILMDCIN
Q1007
Q1008
ILMINT
RUN
ILMP
ILMM
AUX1_MUTE
AUX2_MUTE
SWMUTE
CNMUTE
9VSENS
Q1101
B.UP
10VSENS
Q1102
3V→5V
CDC_IN
DSPIN
DSP_DRDY
DSP_RDY
IC1702
TC74VHCT125AFTS1
5V→3V
DSPRQ
DSPCK
DSPOUT
IC1703
TC74VHC08FTS1
IC1704
AK4591V
DSP
TUNR
TUNL
CDX6R
CDX6L
AINR5
AINL5
AINR6
AINL6
SCLK
SI
RQ_N
SMUTE
INIT_RESE
S_RESET
SDATA01
ADATA02
LRCLK
BITCLK
MCLK
FRONT
REAR
SW.CENTER
SDATA01
ADATA02
LRCLK
BITCLK
MCLK
SDATI1
SDATI2
SDATI3
SO
IC1707
AK7730A
DSP
SDATA01
ADATA02
LRCLK
BITCLK
MCLK
FRONT
REAR
SW.CENTER
SDIN1
SDIN2/JX2
LRCLK_O
BITCLK_O
CLK01
SDOUT1
SDOUT2
SDOUT3
INIT_RESE
S_RESET
SO
DRDY
RDY
RQ
SCLK
SI
PNLYV
PNLADX
PNLXV
PNLADY
ROTINT
ROTIN1
ROTIN0
WAKE_UP
INV_PULSE
SYSTOM
CD_LOAD
CD_EJECT
MTOSYS
SWACPW
CCON
RSTOUT
XCCOFFOK
GUIDEON
FANCNT
IRQPWR
FCONT
VDD5
Q1605
Q1606
Q1607
Q1602
Q1603
Q1604
IC1602
TC7S86FU
Q1601 (1/2)
Q1601 (2/2)
CN1301
PNLYV
PNLADX
PNLXV
PNLADY
ROTIN1
ROTIN0
WAKEUP
INV_PULSE
SYSTOM
LOAD
CDEJKY
MTOSYS
SWACPWR
CCON
RSTOUT
XCCOFFOK
GUIDEON
FANCNT
IRQPWR
FCONT
VDD
REVSENS
REVSENS
A CN703


IC1704
AK4591VQ
DSP
FRONT LPF(BAL→UNBAL)
IC1801
NJM2068V
REAR LPF(BAL→UNBAL)
IC1802
NJM2068V
SUB WOOFER LPF
IC1901
NJM2068V
CENTER IMAGE LPF
IC1902
NJM2068V
SUB WOOFER MUTE
CENTER IMAGE MUTE
Q1901
Q1902
Q1903
Q1904
Q1905(1/2)
Q1905(2/2)
Q1906(1/2)
Q1906(2/2)
Q1907
Q1908
SWMUTE
CNMUTE
1/2VCC
SWDVDD
VCC
VDD
MOTV
TUNR
TUNL
CDX6R
CDX6L
AINR5
AINL5
AINR6
AINL6
AOUTL1+
AOUTL1-
AOUTR1+
AOUTR1-
AOUTL2+
AOUTL2-
AOUTR2+
AOUTR2-
AOUTL3+
AOUTL3-
AOUTR3+
AOUTR3-
FLP
FLM
FRP
FRM
RLP
RLM
RRP
RRM
SWP
SWM
CNTP
CNTM
FL
FR
RL
RR
SWNVP
SWNVM
CENTP
CENTM
SCLK
SI
RQ_N
SMUTE
INIT_RESET_N
S_RESET_N
SDATA01
ADATA02
LRCLK
BITCLK
MCLK
FRONT
REAR
SW.CENTER
SDATI1
SDATI2
SDATI3
SO
AINL4
AINR4
AINL3
AINR3
ST1L
ST1R
ST2L
ST2R
IC1707
AK7730AVT
DSP
SDIN1
SDIN2/JX2
LRCLK_O
BITCLK_O
CLK01
SDOUT1
SDOUT2
SDOUT3
INIT_RESET
S_RESET
DRDY
RDY
RQ
AINL+
AINL-
AINR+
AINR-
PHONEP
PHONEM
IC1706
NJM2100V
GUIDE
XTO
XTI
X1701
11.2896MHz
X1601
16MHz
XOUT
XIN
ASENS
PTAIN
SWC1IN
SWC2IN
RPAIN
AMPCLPIN
SWBPWR
CAN_WKOUT
CAN_ERR
CAN_EN
CANTX
CANRX
CAN_STBY
AUX1CLIPIN
AUX1ENABLE
AUX2CLIPIN
AUX2ENABLE
MOT0
MOT1
PULSE1
OPENSW
HOMESW
BEEP
(BEEP_GAIN)
Q1806
START
AMPSTBY
ASTBY
CLIPIN
WKOUT
CANERR
CANEN
CANSTB
SWCLD
SWPWR
CNTCLD
CNTPWR
PULSE
CN1102
B.UP
VB.UP
CAN+B
CENTERP
CENTERM
CN2061
CN1101
SPEDIN
SPEEDIN
ILMP
ILMM
ILM+
ILM-
REVSNS
HMUTE
STEREO1 L
STEREO1 R
STEREO2 L
STEREO2 R
VCC(AUD8V)
VDD(5V)
CN2051
SWDVDD(5V)
CANSTBY
SW CLD
SW POWER
CENTER CLD
CENTER POW
OPEN SW
HOME SW
MOTV(8.7V)
I2CSDA
I2CCLK
A3.3V
PEE
CCON
RSTOUT
XCCOFFOK
GUIDEON
FANCNT
IRQPWR
FCONT
FANPWR
CTOSYS
SYSTOC
DRAMPW
DRAMPWR
BSENS
CPUWDT
REVSENS
XRESET
Q1601 (1/2)
Q1601 (2/2)
5
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A
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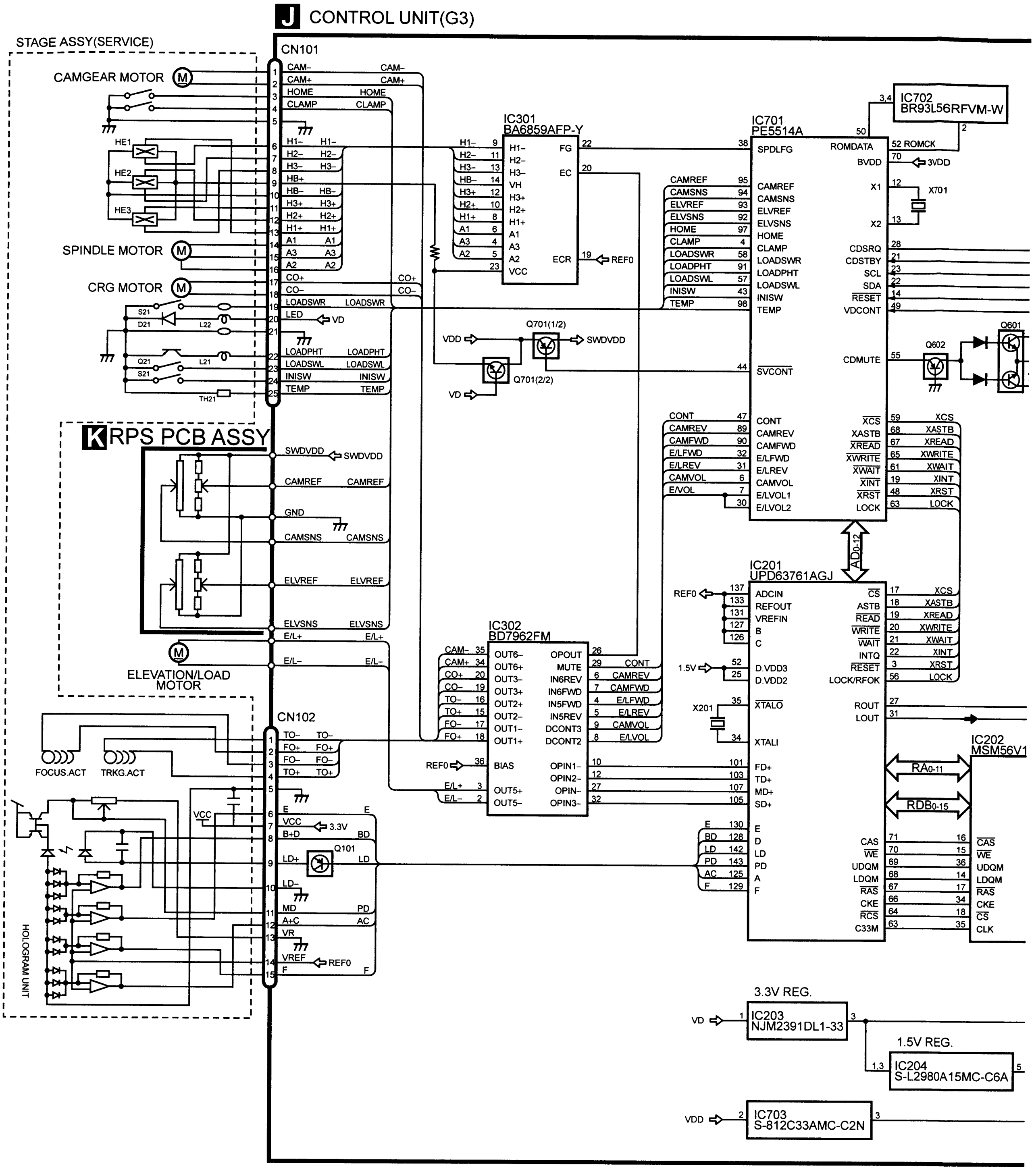
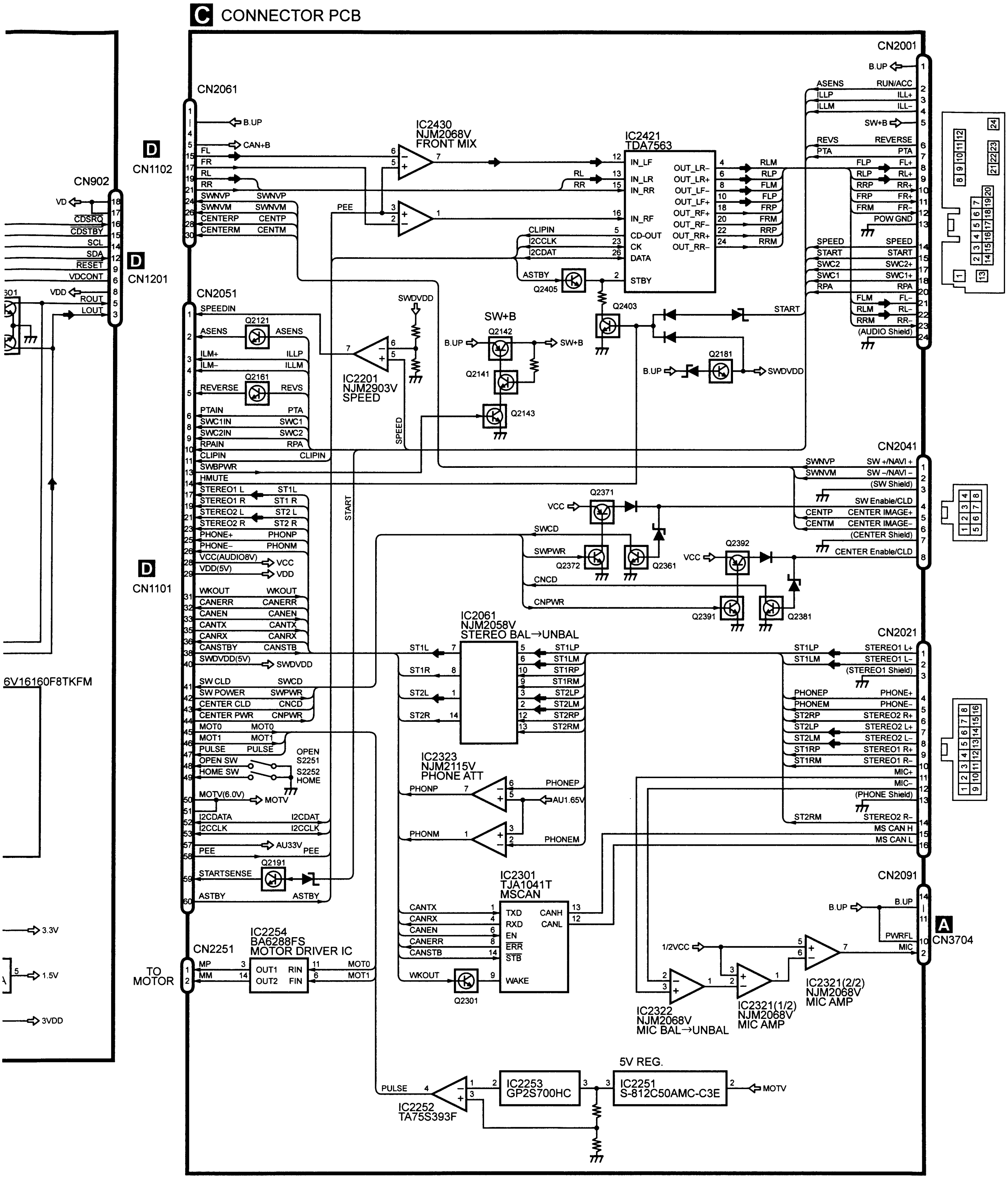

J CONTROL UNIT(G3)
STAGE ASSY(SERVICE)
CN101
CAMGEAR MOTOR
M
HE1
HE2
HE3
SPINDLE MOTOR
CRG MOTOR
S21
D21
L22
Q21
L21
TH21
CAM– CAM+ HOME CLAMP H1– H2– H3– HB+ HB– H3+ H2+ H1+ A1 A3 A2 CO+ CO– LOADSWR LED LOADPHT LOADSWL INISW TEMP
VD
VDD
SWDVDD
Q701(1/2)
Q701(2/2)
K RPS PCB ASSY
SWDVDD
CAMREF
GND
CAMSNS
ELVREF
ELVSNS
E/L+
E/L–
ELEVATION/LOAD MOTOR
CN102
TO– FO+ FO– TO+ E VCC B+D LD+ LD– MD A+C VR VREF F
FOCUS.ACT
TRKG.ACT
3.3V
BD
Q101
LD
PD
AC
REF0
HOLOGRAM UNIT
IC301
BA6859AFP-Y
FG
EC
ECR
VCC
VH
IC302
BD7962FM
OUT6– OUT6+ OUT3– OUT3+ OUT2+ OUT2– OUT1– OUT1+ BIAS OUT5+ OUT5–
OPOUT MUTE IN6REV IN6FWD IN5FWD IN5REV DCONT3 DCONT2 OPIN1– OPIN2– OPIN– OPIN3–
IC701
PE5514A
SPDLFG CAMREF CAMSNS ELVREF ELVSNS HOME CLAMP LOADSWR LOADPHT LOADSWL INISW TEMP SVCONT CONT CAMREV CAMFWD E/LFWD E/LREV CAMVOL E/LVOL1 E/LVOL2
ROMDATA BVDD X1 X2 CDSRQ CDSTBY SCL SDA RESET VDCONT CDMUTE XCS XASTB XREAD XWRITE XWAIT XINT XRST LOCK
IC702
BR93L56RFVM-W
52 ROMCK
3VDD
X701
Q602
Q601
AD0-12
IC201
UPD63761AGJ
ADCIN REFOUT VREFIN B C D.VDD3 D.VDD2 XTALO XTALI FD+ TD+ MD+ SD+ E D LD PD A F
CS ASTB READ WRITE WAIT INTQ RESET LOCK/RFOK ROUT LOUT CAS WE UDQM LDQM RAS CKE RCS C33M
1.5V
X201
IC202
MSM56V1
RA0-11
RDB0-15
CAS WE UDQM LDQM RAS CKE CS CLK
3.3V REG.
IC203
NJM2391DL1-33
1.5V REG.
IC204
S-L2980A15MC-C6A
IC703
S-812C33AMC-C2N


C CONNECTOR PCB
A
B
C
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E
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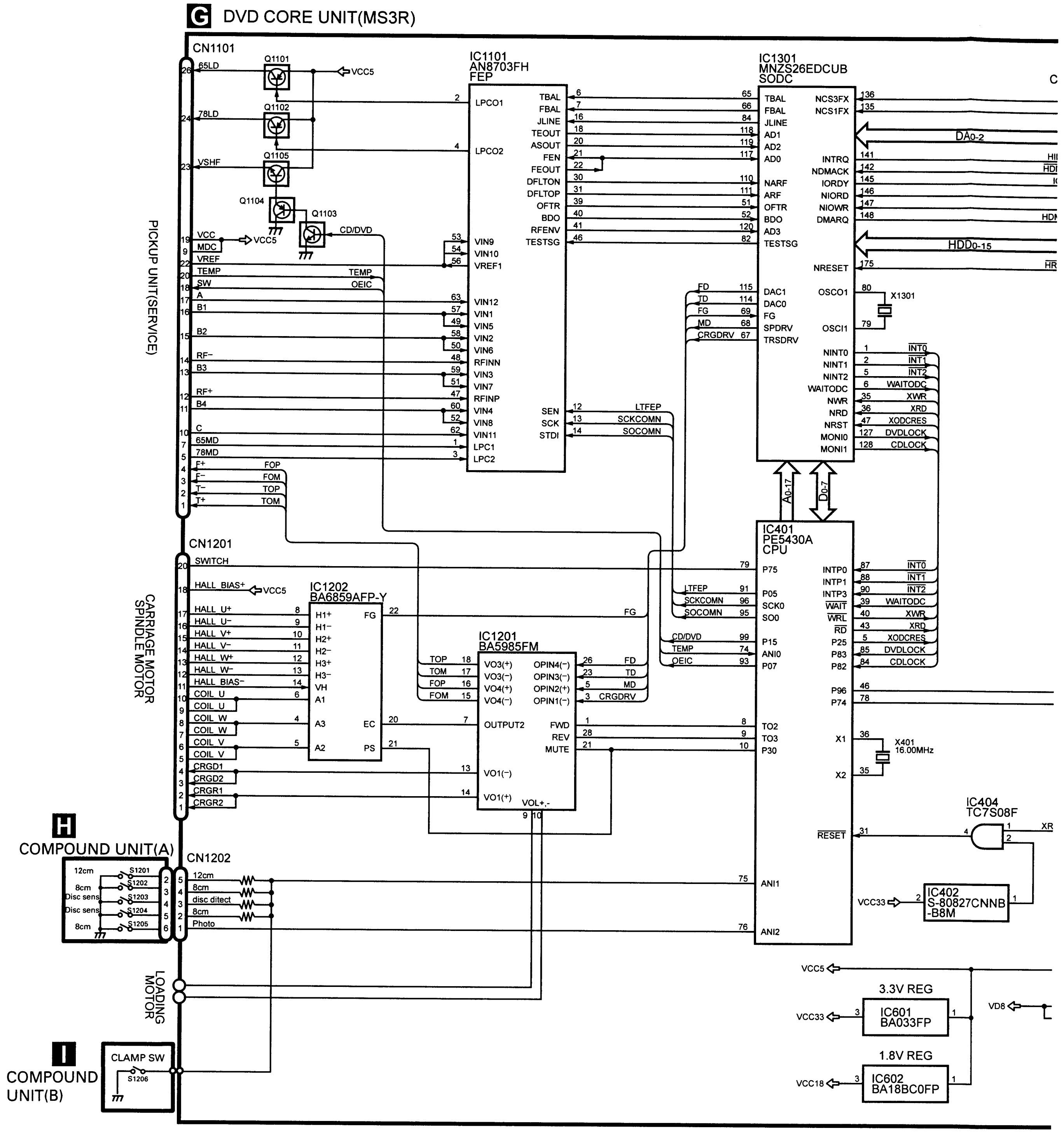
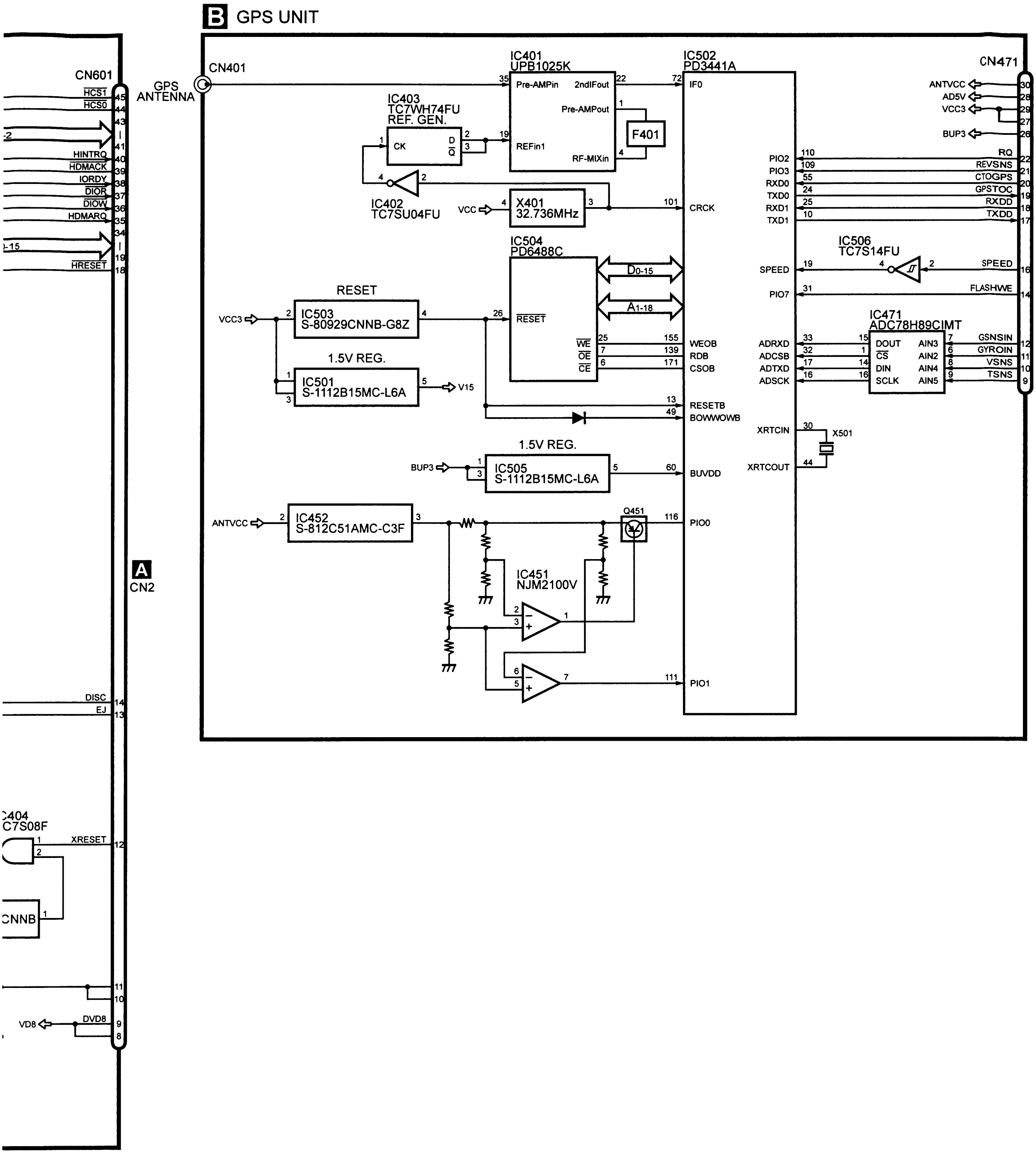
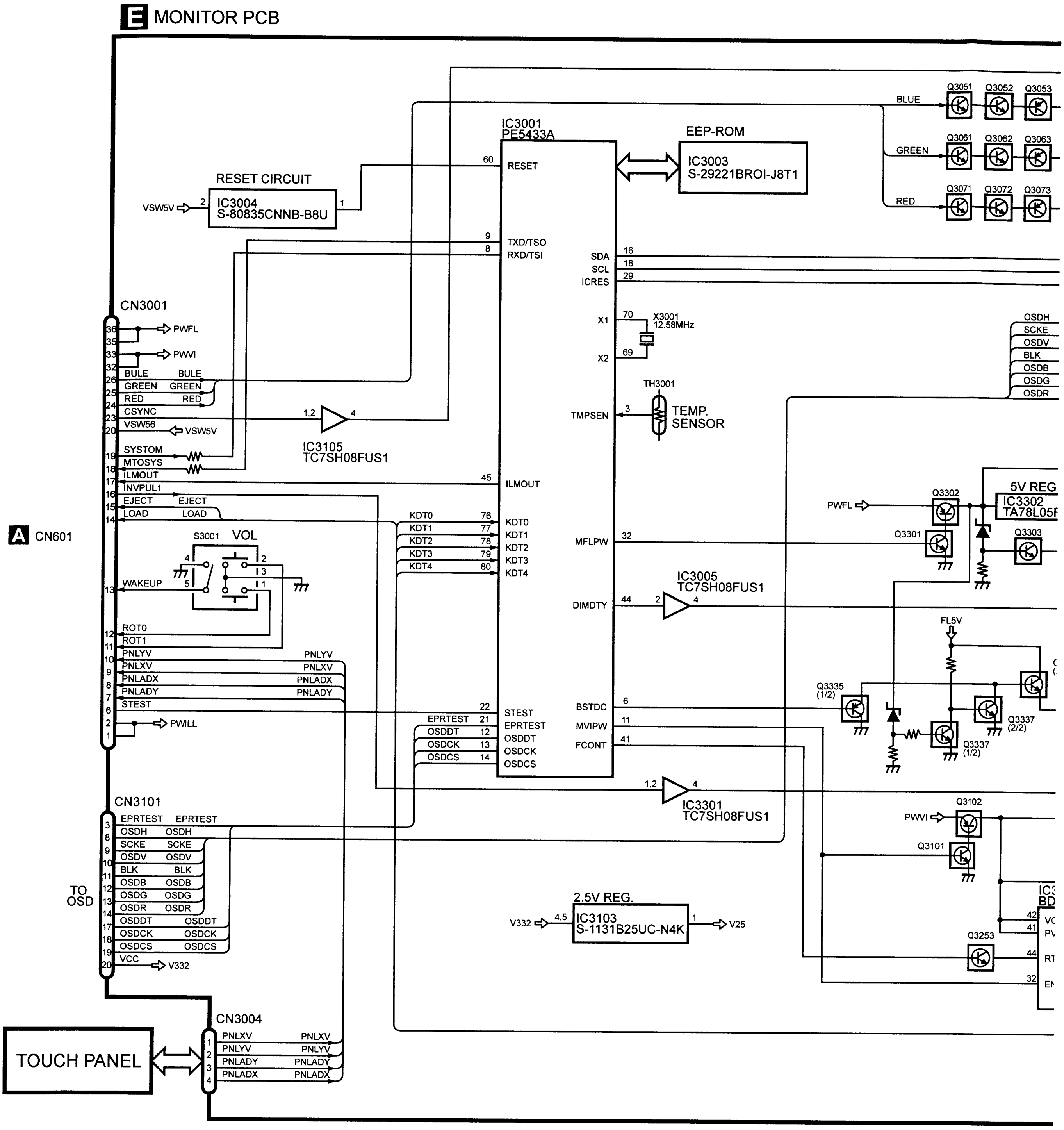
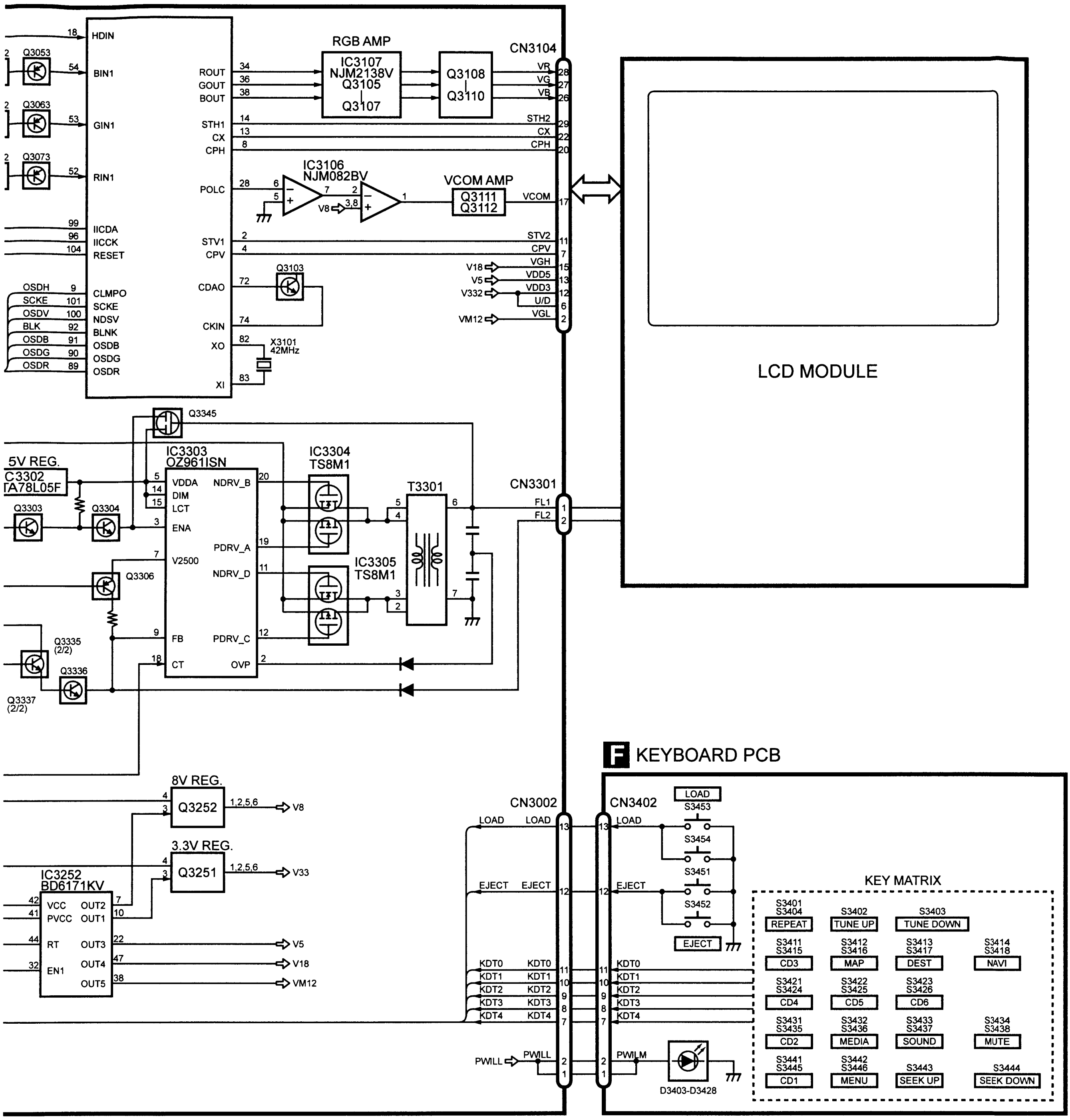
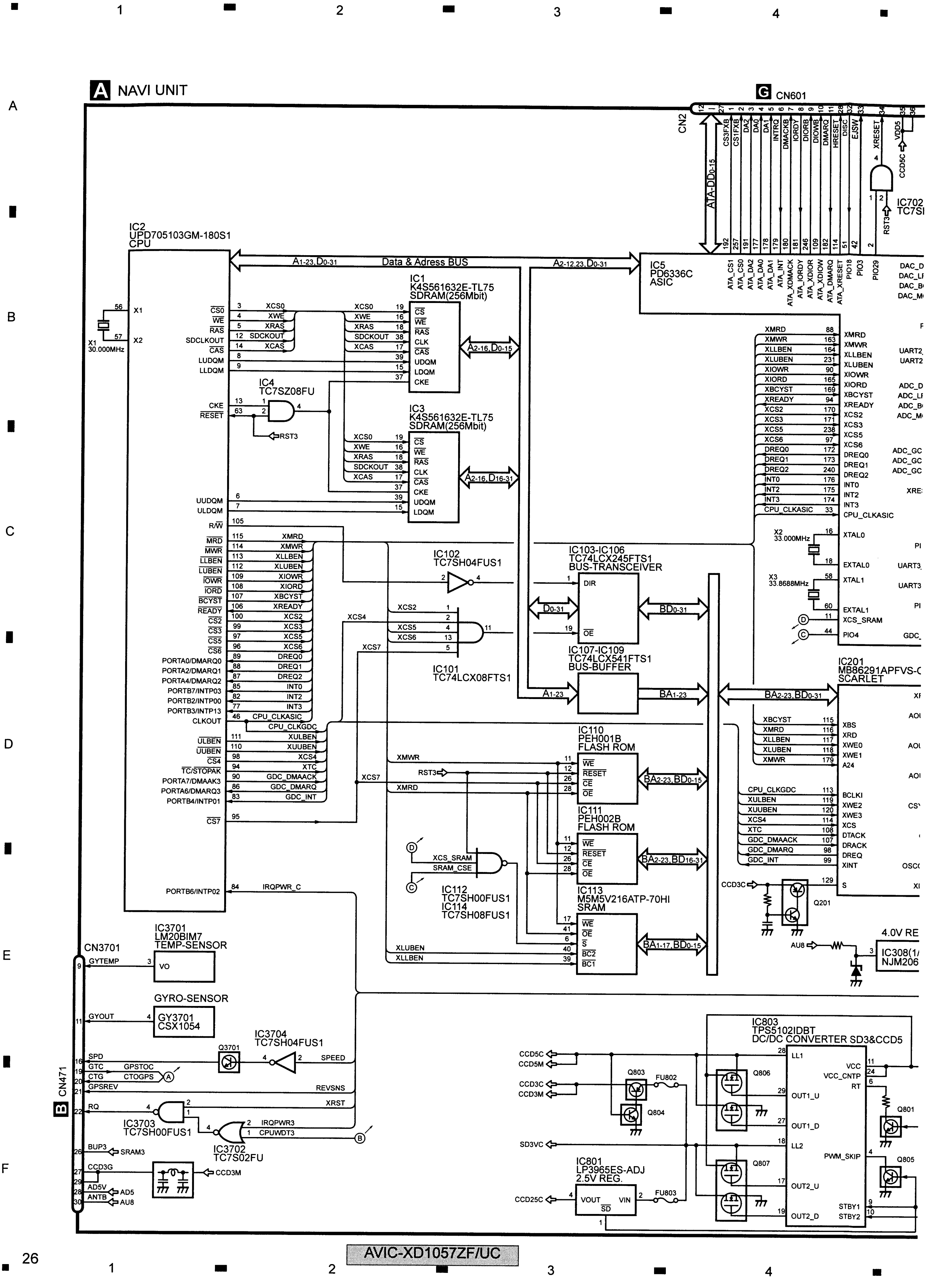
CN2001
CN2061
CN2051
CN2041
CN2021
CN2091
CN2251
CN902
D CN1102
D CN1201
D CN1101
A CN3704
TO MOTOR
6V16160F8TKFM
IC2430
NJM2068V
FRONT MIX
IC2421
TDA7563
IN_LF
IN_LR
IN_RR
IN_RF
CD-OUT
CK
DATA
STBY
OUT_LR-
OUT_LR+
OUT_LF-
OUT_LF+
OUT_RF+
OUT_RF-
OUT_RR+
OUT_RR-
IC2201
NJM2903V
SPEED
SW+B
Q2142
Q2141
Q2143
Q2181
Q2403
Q2405
Q2121
Q2161
Q2191
Q2371
Q2372
Q2361
Q2392
Q2391
Q2381
Q2301
IC2061
NJM2058V
STEREO BAL→UNBAL
IC2323
NJM2115V
PHONE ATT
IC2301
TJA1041T
MSCAN
TXD
RXD
EN
ERR
STB
WAKE
CANH
CANL
IC2322
NJM2068V
MIC BAL→UNBAL
IC2321(1/2)
NJM2068V
MIC AMP
IC2321(2/2)
NJM2068V
MIC AMP
IC2254
BA6288FS
MOTOR DRIVER IC
OUT1
OUT2
RIN
FIN
5V REG.
IC2253
GP2S700HC
IC2251
S-812C50AMC-C3E
IC2252
TA75S393F
B.UP
CAN+B
FL
FR
RL
RR
SWNVP
SWNVM
CENTERP
CENTERM
CENTP
CENTM
PEE
CLIPIN
I2CCLK
I2CDAT
ASTBY
VD
CDSRQ
CDSTBY
SCL
SDA
RESET
VDCONT
VDD
ROUT
LOUT
SPEEDIN
ASENS
ILM+
ILM-
ILLP
ILLM
REVERSE
REVS
PTAIN
PTA
SWC1IN
SWC2IN
SWC1
SWC2
RPAIN
RPA
SWBPWR
HMUTE
STEREO1 L
STEREO1 R
STEREO2 L
STEREO2 R
ST1L
ST1 R
ST2 L
ST2 R
PHONE+
PHONE-
PHONEP
PHONEM
VCC(AUDIO8V)
VDD(5V)
VCC
WKOUT
CANERR
CANEN
CANTX
CANRX
CANSTBY
CANSTB
SWDVDD(5V)
SWDVDD
SW CLD
SW POWER
CENTER CLD
CENTER PWR
SWCD
SWPWR
CNCD
CNPWR
MOT0
MOT1
PULSE
OPEN SW
HOME SW
OPEN
S2251
S2252
HOME
MOTV(6.0V)
MOTV
I2CDATA
I2CCLK
AU33V
STARTSENSE
START
SPEED
3.3V
1.5V
3VDD
MP
MM
RUN/ACC
ILL+
ILL-
FL+
FL-
RL+
RL-
FR+
FR-
RR+
RR-
FLP
FLM
RLP
RLM
FRP
FRM
RRP
RRM
POW GND
SWC2+
SWC1+
(AUDIO Shield)
SW +/NAVI +
SW -/NAVI -
(SW Shield)
SW Enable/CLD
CENTER IMAGE+
CENTER IMAGE-
(CENTER Shield)
CENTER Enable/CLD
STEREO1 L+
STEREO1 L-
(STEREO1 Shield)
STEREO2 R+
STEREO2 L+
STEREO2 L-
STEREO1 R+
STEREO1 R-
MIC+
MIC-
(PHONE Shield)
STEREO2 R-
MS CAN H
MS CAN L
ST1LP
ST1LM
ST1RP
ST1RM
ST2LP
ST2LM
ST2RP
ST2RM
ST1L
ST1R
ST2L
ST2R
PHONP
PHONM
AU1.65V
1/2VCC
PWRFL
MIC

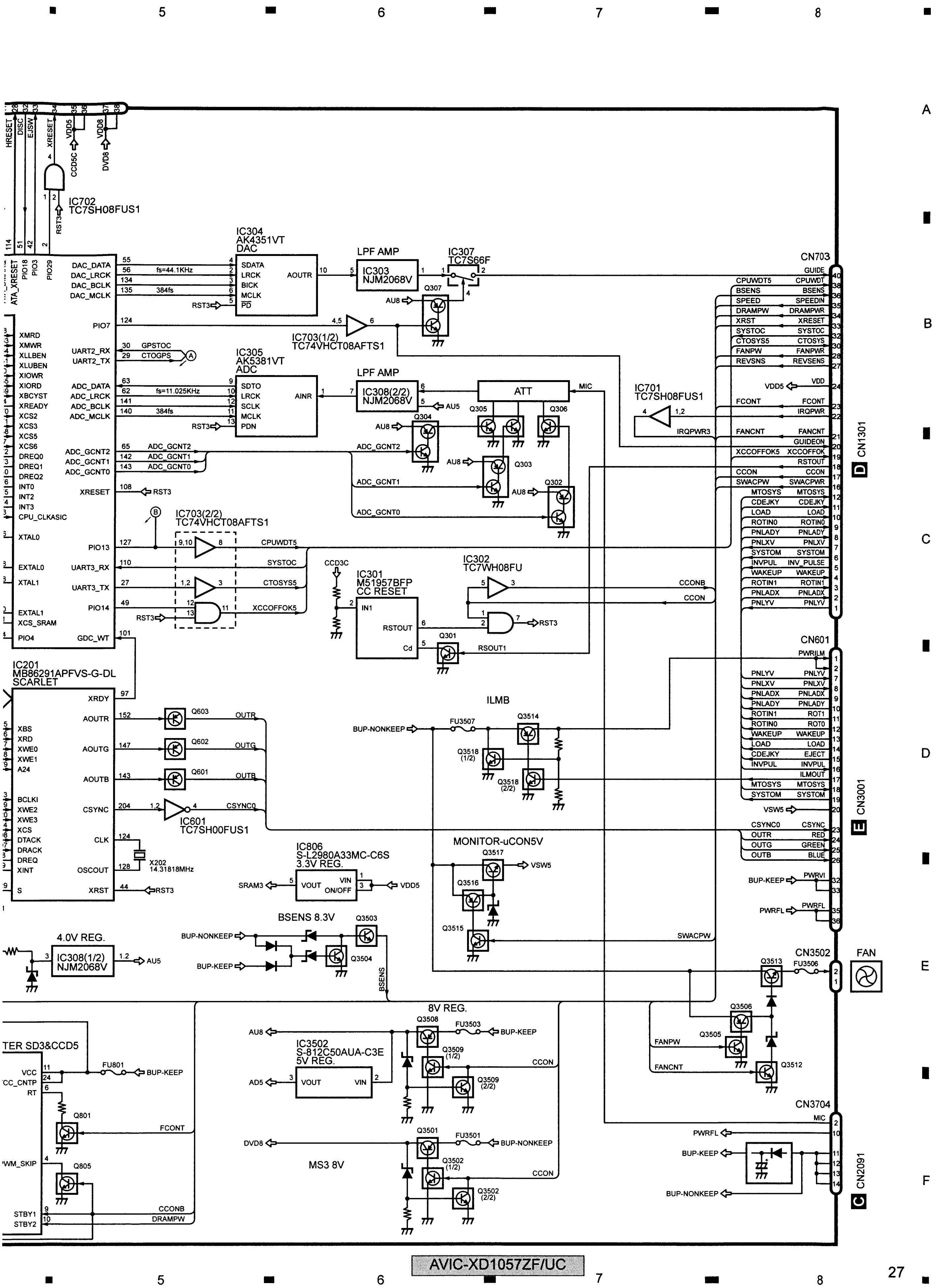

G DVD CORE UNIT(MS3R)
CN1101
PICKUP UNIT(SERVICE)
Q1101
Q1102
Q1105
Q1104
Q1103
VCC5
65LD
78LD
VSHF
VCC
MDC
VREF
TEMP
SW
OEIC
CD/DVD
A
B1
B2
RF−
B3
RF+
B4
C
65MD
78MD
F+
F−
T−
T+
FOP
FOM
TOP
TOM
IC1101
AN8703FH
FEP
LPCO1
LPCO2
TBAL
FBAL
JLINE
TEOUT
ASOUT
FEN
FEOUT
DFLTON
DFLTOP
OFTR
BDO
RFENV
TESTSG
VIN9
VIN10
VREF1
VIN12
VIN1
VIN5
VIN2
VIN6
RFINN
VIN3
VIN7
RFINP
VIN4
VIN8
VIN11
LPC1
LPC2
SEN
SCK
STDI
LTFEP
SCKCOMN
SOCOMN
IC1301
MNZS26EDCUB
SODC
NCS3FX
NCS1FX
AD1
AD2
AD0
INTRQ
NDMACK
IORDY
NIORD
NIOWR
DMARQ
NARF
ARF
AD3
NRESET
DAC1
DAC0
FG
SPDRV
TRSDRV
OSCO1
OSCI1
X1301
NINT0
NINT1
NINT2
WAITODC
NWR
NRD
NRST
MONI0
MONI1
INT0
INT1
INT2
XWR
XRD
XODCRES
DVDLOCK
CDLOCK
DA0-2
HDD0-15
FD
TD
MD
CRGDRV
A0-17
D0-7
CN1201
CARRIAGE MOTOR
SPINDLE MOTOR
SWITCH
HALL BIAS+
HALL U+
HALL U−
HALL V+
HALL V−
HALL W+
HALL W−
HALL BIAS−
COIL U
COIL W
COIL V
CRGD1
CRGD2
CRGR1
CRGR2
IC1202
BA6859AFP-Y
H1+
H1−
H2+
H2−
H3+
H3−
VH
A1
A3
A2
EC
PS
IC1201
BA5985FM
VO3(+)
VO3(−)
VO4(+)
VO4(−)
OUTPUT2
VO1(−)
VO1(+)
OPIN4(−)
OPIN3(−)
OPIN2(+)
OPIN1(−)
FWD
REV
MUTE
VOL+,-
IC401
PE5430A
CPU
P75
P05
SCK0
SO0
P15
ANI0
P07
TO2
TO3
P30
ANI1
ANI2
INTP0
INTP1
INTP3
WAIT
WRL
RD
P25
P83
P82
P96
P74
X1
X2
X401
16.00MHz
RESET
IC404
TC7S08F
XR
IC402
S-80827CNNB
-B8M
VCC33
H COMPOUND UNIT(A)
CN1202
12cm
8cm
Disc sens
disc ditect
Photo
S1201
S1202
S1203
S1204
S1205
LOADING MOTOR
I COMPOUND UNIT(B)
CLAMP SW
S1206
3.3V REG
IC601
BA033FP
1.8V REG
IC602
BA18BC0FP
VD8
VCC18


B GPS UNIT
CN401
GPS ANTENNA
IC401 UPB1025K
Pre-AMPin
2ndIFout
Pre-AMPout
REFin1
RF-MIXin
F401
IC403 TC7WH74FU REF. GEN.
CK
D
Q
IC402 TC7SU04FU
VCC
X401 32.736MHz
IC504 PD6488C
RESET
WE
OE
CE
D0-15
A1-18
RESET
IC503 S-80929CNNB-G8Z
VCC3
1.5V REG.
IC501 S-1112B15MC-L6A
V15
1.5V REG.
BUP3
IC505 S-1112B15MC-L6A
ANTVCC
IC452 S-812C51AMC-C3F
Q451
IC451 NJM2100V
IC502 PD3441A
IF0
CRCK
WEOB
RDB
CSOB
RESETB
BOWWOWB
BUVDD
PIO0
PIO1
PIO2
PIO3
RXD0
TXD0
RXD1
TXD1
SPEED
PIO7
ADRXD
ADCSB
ADTXD
ADSCK
XRTCIN
XRTCOUT
X501
IC506 TC7S14FU
IC471 ADC78H89CIMT
DOUT
CS
DIN
SCLK
AIN3
AIN2
AIN4
AIN5
CN471
ANTVCC
AD5V
VCC3
BUP3
RQ
REVSNS
CTOGPS
GPSTOC
RXDD
TXDD
SPEED
FLASHWE
GSNSIN
GYROIN
VSNS
TSNS
A CN3701
CN601
HCS1
HCS0
HINTRQ
HDMACK
IORDY
DIOR
DIOW
HDMARQ
HRESET
A CN2
DISC
EJ
IC404 TC7S08F
XRESET
CNNB
DVD8
VD8

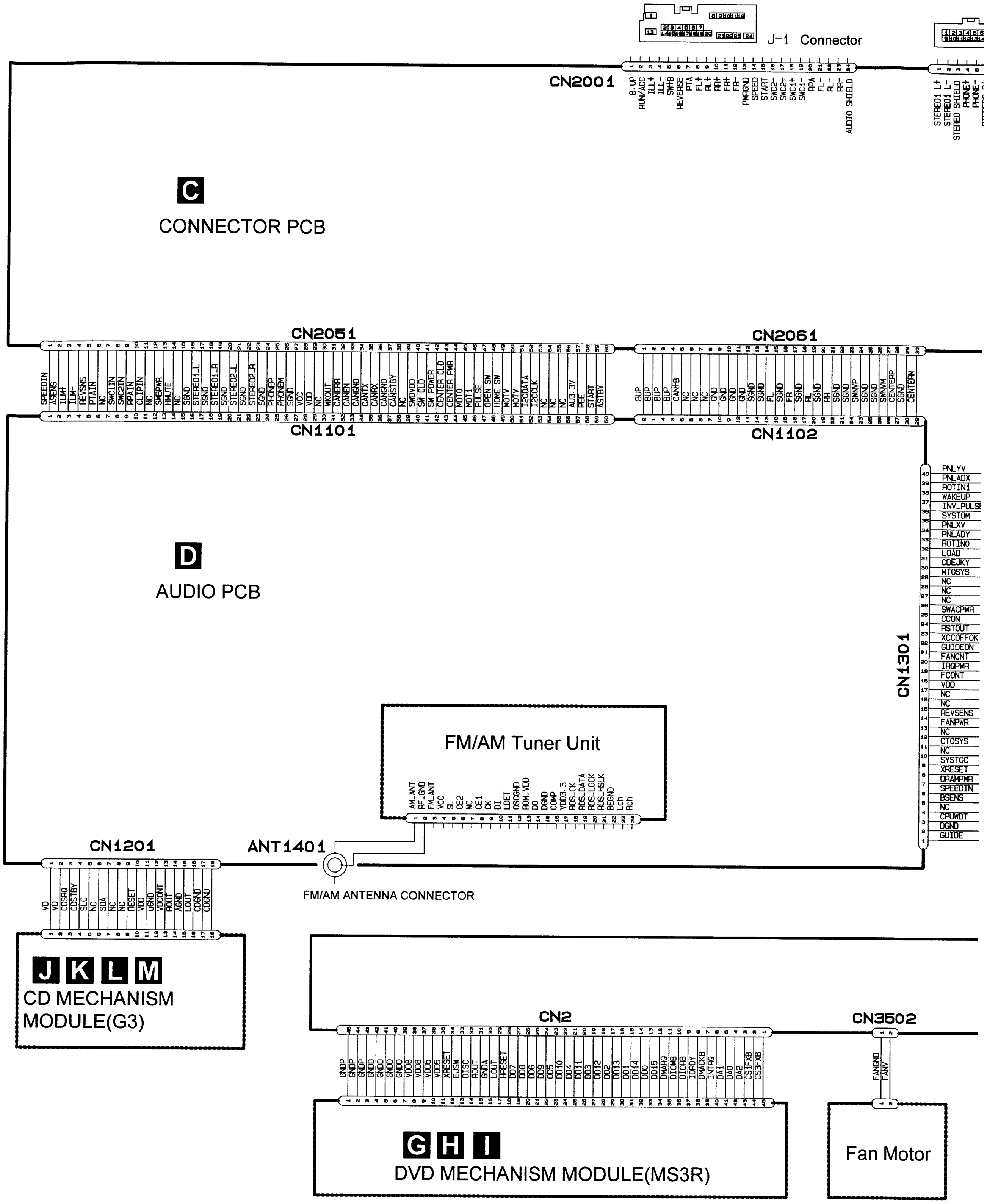

E MONITOR PCB
A CN601
CN3001
36 35 33 32 26 25 24 23 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 2 1
PWFL
PWVI
BULE
GREEN
RED
CSYNC
VSW56
VSW5V
SYSTOM
MTOSYS
ILMOUT
INVPUL1
EJECT
LOAD
WAKEUP
ROT0
ROT1
PNLYV
PNLXV
PNLADX
PNLADY
STEST
PWILL
RESET CIRCUIT
IC3004
S-80835CNNB-B8U
IC3105
TC7SH08FUS1
S3001 VOL
IC3001
PE5433A
RESET
TXD/TSO
RXD/TSI
SDA
SCL
ICRES
X1
X2
TMPSEN
ILMOUT
KDT0
KDT1
KDT2
KDT3
KDT4
MFLPW
DIMDTY
STEST
EPRTEST
OSDDT
OSDCK
OSDCS
BSTDC
MVIPW
FCONT
EEP-ROM
IC3003
S-29221BROI-J8T1
X3001
12.58MHz
TH3001
TEMP. SENSOR
IC3005
TC7SH08FUS1
IC3301
TC7SH08FUS1
CN3101
TO OSD
EPRTEST
OSDH
SCKE
OSDV
BLK
OSDB
OSDG
OSDR
OSDDT
OSDCK
OSDCS
VCC
V332
2.5V REG.
IC3103
S-1131B25UC-N4K
V25
CN3004
TOUCH PANEL
Q3051 Q3052 Q3053
Q3061 Q3062 Q3063
Q3071 Q3072 Q3073
BLUE
5V REG
IC3302
TA78L05F
Q3302
Q3301
Q3303
FL5V
Q3335 (1/2)
Q3337 (2/2)
Q3337 (1/2)
Q3102
Q3101
Q3253
PWVI
IC3 BD
42 VC
41 PV
44 R1
32 EN

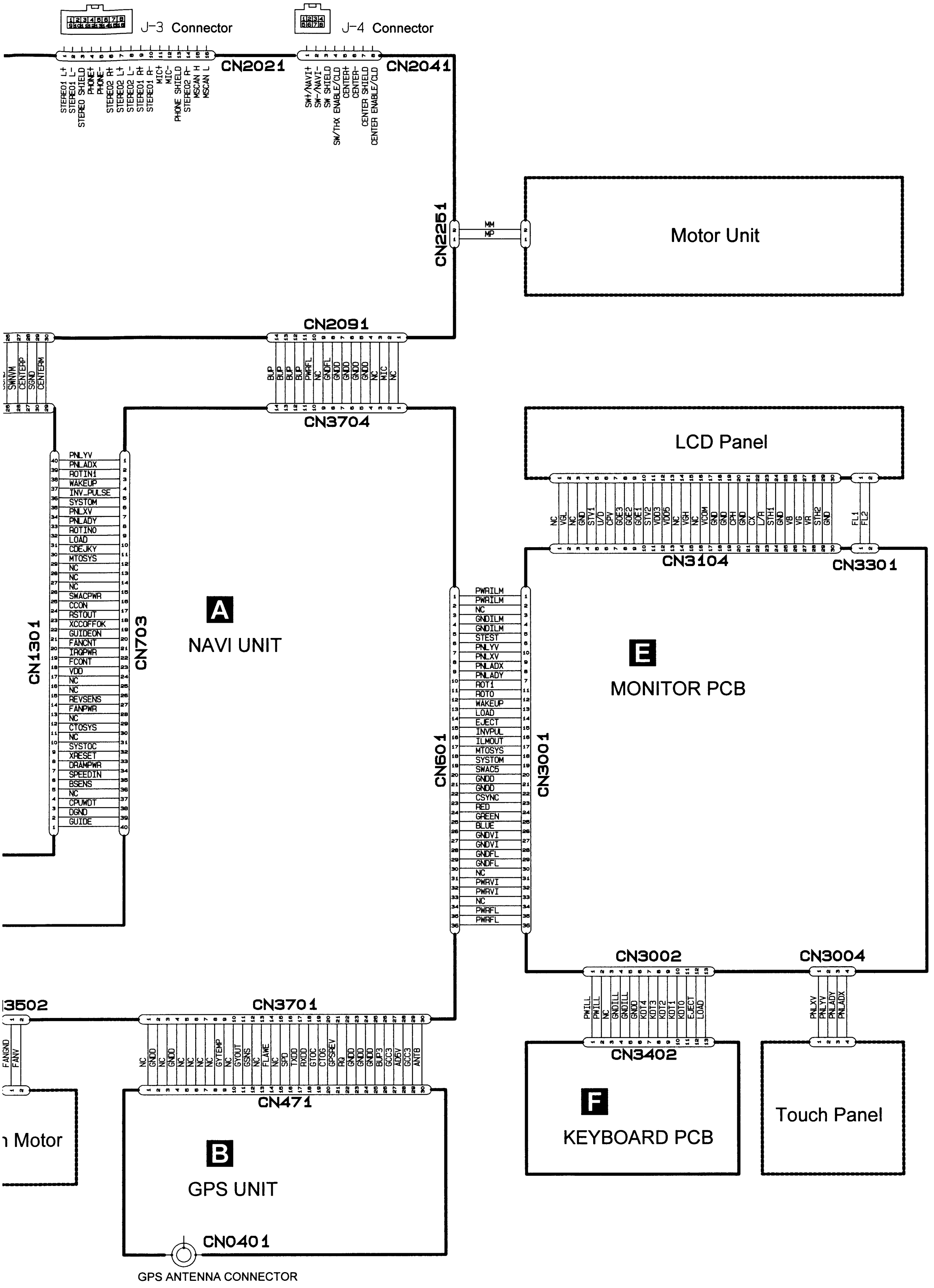

A
B
C
D
E
F
RGB AMP
IC3107
NJM2138V
Q3105
|
Q3107
Q3108
|
Q3110
CN3104
HDIN
BIN1
GIN1
RIN1
Q3053
Q3063
Q3073
ROUT
GOUT
BOUT
STH1
CX
CPH
POLC
STV1
CPV
CDAO
CKIN
XO
XI
IICDA
IICCK
RESET
CLMPO
SCKE
NDSV
BLNK
OSDB
OSDG
OSDR
OSDH
SCKE
OSDV
BLK
OSDB
OSDG
OSDR
VR
VG
VB
STH2
CX
CPH
VCOM
STV2
CPV
VGH
VDD5
VDD3
U/D
VGL
V18
V5
V332
VM12
IC3106
NJM082BV
V8
3.8
VCOM AMP
Q3111
Q3112
Q3103
X3101
42MHz
LCD MODULE
Q3345
5V REG.
C3302
TA78L05F
IC3303
OZ961ISN
VDDA
DIM
LCT
ENA
V2500
FB
CT
NDRV_B
PDRV_A
NDRV_D
PDRV_C
OVP
IC3304
TS8M1
IC3305
TS8M1
T3301
CN3301
FL1
FL2
Q3303
Q3304
Q3306
Q3335
(2/2)
Q3336
Q3337
(2/2)
8V REG.
Q3252
1,2,5,6
V8
3.3V REG.
Q3251
1,2,5,6
V33
IC3252
BD6171KV
VCC
PVCC
RT
EN1
OUT2
OUT1
OUT3
OUT4
OUT5
V5
V18
VM12
CN3002
LOAD
EJECT
KDT0
KDT1
KDT2
KDT3
KDT4
PWILL
F KEYBOARD PCB
CN3402
LOAD
EJECT
KDT0
KDT1
KDT2
KDT3
KDT4
PWILM
LOAD
S3453
S3454
S3451
S3452
EJECT
D3403-D3428
KEY MATRIX
S3401
S3404
REPEAT
S3402
TUNE UP
S3403
TUNE DOWN
S3411
S3415
CD3
S3412
S3416
MAP
S3413
S3417
DEST
S3414
S3418
NAVI
S3421
S3424
CD4
S3422
S3425
CD5
S3423
S3426
CD6
S3431
S3435
CD2
S3432
S3436
MEDIA
S3433
S3437
SOUND
S3434
S3438
MUTE
S3441
S3445
CD1
S3442
S3446
MENU
S3443
SEEK UP
S3444
SEEK DOWN


A NAVI UNIT
G CN601
CN2
ATA-DD0-15
IC702
TC7SI
RST3
CCD5C
VDD5
XRESET
IC2
UPD705103GM-180S1
CPU
X1
30.000MHz
A1-23,D0-31
Data & Adress BUS
A2-12,23,D0-31
IC5
PD6336C
ASIC
IC1
K4S561632E-TL75
SDRAM(256Mbit)
A2-16,D0-15
IC4
TC7SZ08FU
RST3
IC3
K4S561632E-TL75
SDRAM(256Mbit)
A2-16,D16-31
IC102
TC7SH04FUS1
IC101
TC74LCX08FTS1
IC103-IC106
TC74LCX245FTS1
BUS-TRANSCEIVER
D0-31
BD0-31
IC107-IC109
TC74LCX541FTS1
BUS-BUFFER
A1-23
BA1-23
IC201
MB86291APFVS-C
SCARLET
BA2-23,BD0-31
IC110
PEH001B
FLASH ROM
BA2-23,BD0-15
IC111
PEH002B
FLASH ROM
BA2-23,BD16-31
IC112
TC7SH00FUS1
IC114
TC7SH08FUS1
IC113
M5M5V216ATP-70HI
SRAM
BA1-17,BD0-15
X2
33.000MHz
X3
33.8688MHz
Q201
4.0V RE
IC308(1/
NJM206
CN3701
IC3701
LM20BIM7
TEMP-SENSOR
GYRO-SENSOR
GY3701
CSX1054
IC3704
TC7SH04FUS1
Q3701
B CN471
IC3703
TC7SH00FUS1
IC3702
TC7S02FU
IC803
TPS5102IDBT
DC/DC CONVERTER SD3&CCD5
IC801
LP3965ES-ADJ
2.5V REG.
FU802
FU803
Q801
Q803
Q804
Q805
Q806
Q807
CCD5C
CCD5M
CCD3C
CCD3M
SD3VC
CCD25C
1
2
3
4
A
B
C
D
E
F


5
6
7
8
A
B
C
D
E
F
IC702
TC7SH08FUS1
HRESET
DISC
EJSW
XRESET
VDD5
VDD8
CCD5C
DVD8
RST3
IC304
AK4351VT
DAC
SDATA
LRCK
BICK
MCLK
PD
AOUTR
fs=44.1KHz
384fs
DAC_DATA
DAC_LRCK
DAC_BCLK
DAC_MCLK
ATA_XRESET
PIO18
PIO3
PIO29
PIO7
LPF AMP
IC303
NJM2068V
IC307
TC7S66F
Q307
AU8
IC703(1/2)
TC74VHCT08AFTS1
IC305
AK5381VT
ADC
SDTO
LRCK
SCLK
MCLK
PDN
AINR
fs=11.025KHz
IC308(2/2)
NJM2068V
AU5
ATT
MIC
Q304
Q305
Q306
Q303
Q302
ADC_GCNT2
ADC_GCNT1
ADC_GCNT0
XMRD
XMWR
XLLBEN
XLUBEN
XIOWR
XIORD
XBCYST
XREADY
XCS2
XCS3
XCS5
XCS6
DREQ0
DREQ1
DREQ2
INT0
INT2
INT3
CPU_CLKASIC
XTAL0
EXTAL0
XTAL1
EXTAL1
XCS_SRAM
PIO4
UART2_RX
UART2_TX
GPSTOC
CTOGPS
ADC_DATA
ADC_LRCK
ADC_BCLK
ADC_MCLK
XRESET
PIO13
UART3_RX
UART3_TX
PIO14
GDC_WT
IC703(2/2)
TC74VHCT08AFTS1
CPUWDT5
SYSTOC
CTOSYS5
XCCOFFOK5
IC301
M51957BFP
CC RESET
IN1
RSTOUT
Cd
CCD3C
Q301
RSOUT1
IC302
TC7WH08FU
CCONB
CCON
IC701
TC7SH08FUS1
VDD5
IRQPWR3
IC201
MB86291APFVS-G-DL
SCARLET
XRDY
AOUTR
AOUTG
AOUTB
CSYNC
CLK
OSCOUT
XRST
XBS
XRD
XWE0
XWE1
A24
BCLKI
XWE2
XWE3
XCS
DTACK
DRACK
DREQ
XINT
S
Q603
Q602
Q601
OUTR
OUTG
OUTB
CSYNC0
IC601
TC7SH00FUS1
X202
14.31818MHz
IC806
S-L2980A33MC-C6S
3.3V REG.
VOUT
VIN
ON/OFF
SRAM3
ILMB
BUP-NONKEEP
FU3507
Q3514
Q3518 (1/2)
Q3518 (2/2)
MONITOR-uCON5V
Q3517
Q3516
Q3515
VSW5
SWACPW
BSENS 8.3V
Q3503
Q3504
BUP-KEEP
BSENS
4.0V REG.
IC308(1/2)
NJM2068V
8V REG.
Q3508
FU3503
Q3509 (1/2)
Q3509 (2/2)
IC3502
S-812C50AUA-C3E
5V REG.
AD5
MS3 8V
Q3501
FU3501
Q3502 (1/2)
Q3502 (2/2)
TER SD3&CCD5
VCC
CC_CNTP
RT
FU801
Q801
FCONT
PWM_SKIP
Q805
STBY1
STBY2
DRAMPW
CN703
GUIDE
CPUWDT
BSENS
SPEEDIN
DRAMPWR
XRESET
SYSTOC
CTOSYS
FANPWR
REVSENS
VDD
FCONT
IRQPWR
FANCNT
GUIDEON
XCCOFFOK
RSTOUT
CCON
SWACPW
MTOSYS
CDEJKY
LOAD
ROTIN0
PNLADY
PNLXV
SYSTOM
INV_PULSE
WAKEUP
ROTIN1
PNLADX
PNLYV
CN1301
CN601
PWRILM
ROT1
ROT0
EJECT
INVPUL
ILMOUT
CN3001
CSYNC
RED
GREEN
BLUE
PWRVI
PWRFL
CN3502
FAN
Q3513
FU3506
Q3506
Q3505
Q3512
FANPW
FANCNT
CN3704
CN2091
C
D
E

3.2 OVERALL CONNECTION DIAGRAM

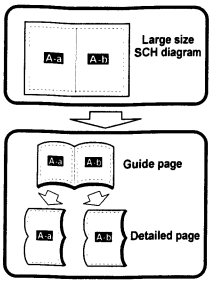

J-1 Connector
CN2001
B.UP
RUN/ACC
ILL+
ILL-
SW+B
REVERSE
PTA
FL+
RL+
RR+
FR+
FR-
PWRGND
SPEED
START
SWC2-
SWC2+
SWC1+
SWC1-
RPA
FL-
RL-
RR-
AUDIO SHIELD
STEREO1 L+
STEREO1 L-
STEREO SHIELD
PHONE+
PHONE-
C
CONNECTOR PCB
CN2051
CN1101
SPEEDIN
ASENS
ILM+
ILM-
REVSNS
PTAIN
NC
SWC1IN
SWC2IN
RPAIN
CLIPIN
NC
SWBPWR
HMUTE
NC
SGND
STEREO1_L
SGND
STEREO1_R
SGND
STEREO2_L
SGND
STEREO2_R
SGND
PHONEP
PHONEM
SGND
VCC
VDD
NC
WKOUT
CANERR
CANEN
CANGND
CANTX
CANRX
CANGND
CANSTBY
NC
SWDVDD
SW CLD
SW POWER
CENTER CLD
CENTER PWR
MOTO
MOT1
PULSE
OPEN SW
HOME SW
MOTV
MOTV
I2CDATA
I2CCLK
NC
NC
NC
AU3.3V
PEE
START
ASTBY
CN2061
CN1102
BUP
BUP
BUP
BUP
CAN+B
NC
NC
NC
GND
GND
GND
GND
SGND
SGND
FL
SGND
FR
SGND
RL
SGND
RR
SGND
SGND
SWNVP
SGND
SGND
SWNVM
CENTERP
SGND
CENTERM
D
AUDIO PCB
CN1301
PNLYV
PNLADX
ROTIN1
WAKEUP
INV_PULSE
SYSTOM
PNLXV
PNLADY
ROTIN0
LOAD
CDEJKY
MTOSYS
NC
NC
NC
SWACPWR
CCON
RSTOUT
XCCOFFOK
GUIDEON
FANCNT
IRQPWR
FCONT
VDD
NC
NC
REVSENS
FANPWR
NC
CTOSYS
NC
SYSTOC
XRESET
DRAMPWR
SPEEDIN
BSENS
NC
CPUWDT
DGND
GUIDE
FM/AM Tuner Unit
AM_ANT
RF_GND
FM_ANT
VCC
SL
CE2
WC
CE1
CK
DI
LDET
OSCGND
ROM_VDD
DO
DGND
COMP
VDD3.3
RDS_CK
RDS_DATA
RDS_LOCK
RDS_HSLK
BEGND
Lch
Rch
CN1201
ANT1401
FM/AM ANTENNA CONNECTOR
VD
VD
CDSRQ
CDSTBY
SLC
NC
SDA
NC
NC
RESET
VDD
uGND
VDCONT
ROUT
AGND
LOUT
CDGND
CDGND
J K L M
CD MECHANISM
MODULE(G3)
CN2
GNDP
GNDP
GNDP
GNDD
GNDD
GNDD
GNDD
VDD8
VDD8
VDD5
VDD5
XRESET
EJSW
DISC
ROUT
GNDA
LOUT
HRESET
DD7
DD8
DD6
DD9
DD5
DD10
DD4
DD11
DD3
DD12
DD2
DD13
DD1
DD14
DD0
DD15
DMARQ
DIOWB
DIORB
IORDY
DMACKB
INTRQ
DA1
DA0
DA2
CS1FXB
CS3FXB
G H I
DVD MECHANISM MODULE(MS3R)
CN3502
FANGND
FANV
Fan Motor
A
B
C
D
E
F


J-3 Connector
J-4 Connector
CN2021
STEREO1 L+
STEREO1 L-
STEREO SHIELD
PHONE+
PHONE-
STEREO2 R+
STEREO2 L+
STEREO2 L-
STEREO1 R+
STEREO1 R-
MIC+
MIC-
PHONE SHIELD
STEREO2 R-
MSCAN H
MSCAN L
CN2041
SW+/NAVI+
SW-/NAVI-
SW SHIELD
SW/THX ENABLE/CLD
CENTER+
CENTER-
CENTER SHIELD
CENTER ENABLE/CLD
CN2251
MM
MP
Motor Unit
CN2091
CN3704
BUP
PWRFL
NC
GNDFL
GNDD
MIC
SWNVM
CENTERP
SGND
CENTERM
LCD Panel
CN3104
CN3301
NC
VGL
GND
STV1
U/D
CPV
GOE3
GOE2
GOE1
STV2
VDD3
VDD5
VGH
VCOM
CPH
CX
L/R
STH1
VB
VG
VR
STH2
FL1
FL2
A
NAVI UNIT
CN1301
CN703
PNLYV
PNLADX
ROTIN1
WAKEUP
INV_PULSE
SYSTOM
PNLXV
PNLADY
ROTIN0
LOAD
CDEJKY
MTOSYS
SWACPWR
CCON
RSTOUT
XCCOFFOK
GUIDEON
FANCNT
IRGPWR
FCONT
VDD
REVSENS
FANPWR
CTOSYS
SYSTOC
XRESET
DRAMPWR
SPEEDIN
BSENS
CPUWDT
DGND
GUIDE
CN601
CN3001
PWRILM
GNDILM
STEST
ROT1
ROT0
EJECT
INVPUL
ILMOUT
SWAC5
CSYNC
RED
GREEN
BLUE
GNDVI
PWRVI
E
MONITOR PCB
CN3002
CN3004
3502
CN3701
FANGND
FANV
Motor
CN471
GYTEMP
GYOUT
GSNS
FLAME
SPD
TXDD
RXDD
GTOC
CTOG
GPSREV
RQ
BUP3
GCC3
AD5V
ANTB
B
GPS UNIT
CN0401
GPS ANTENNA CONNECTOR
CN3402
PWILL
GNDILL
KDT4
KDT3
KDT2
KDT1
KDT0
F
KEYBOARD PCB
PNLXV
PNLYV
PNLADY
PNLADX
Touch Panel

3.3 NAVI UNIT(CPU/ASIC/SDRAM PART)(GUIDE PAGE)

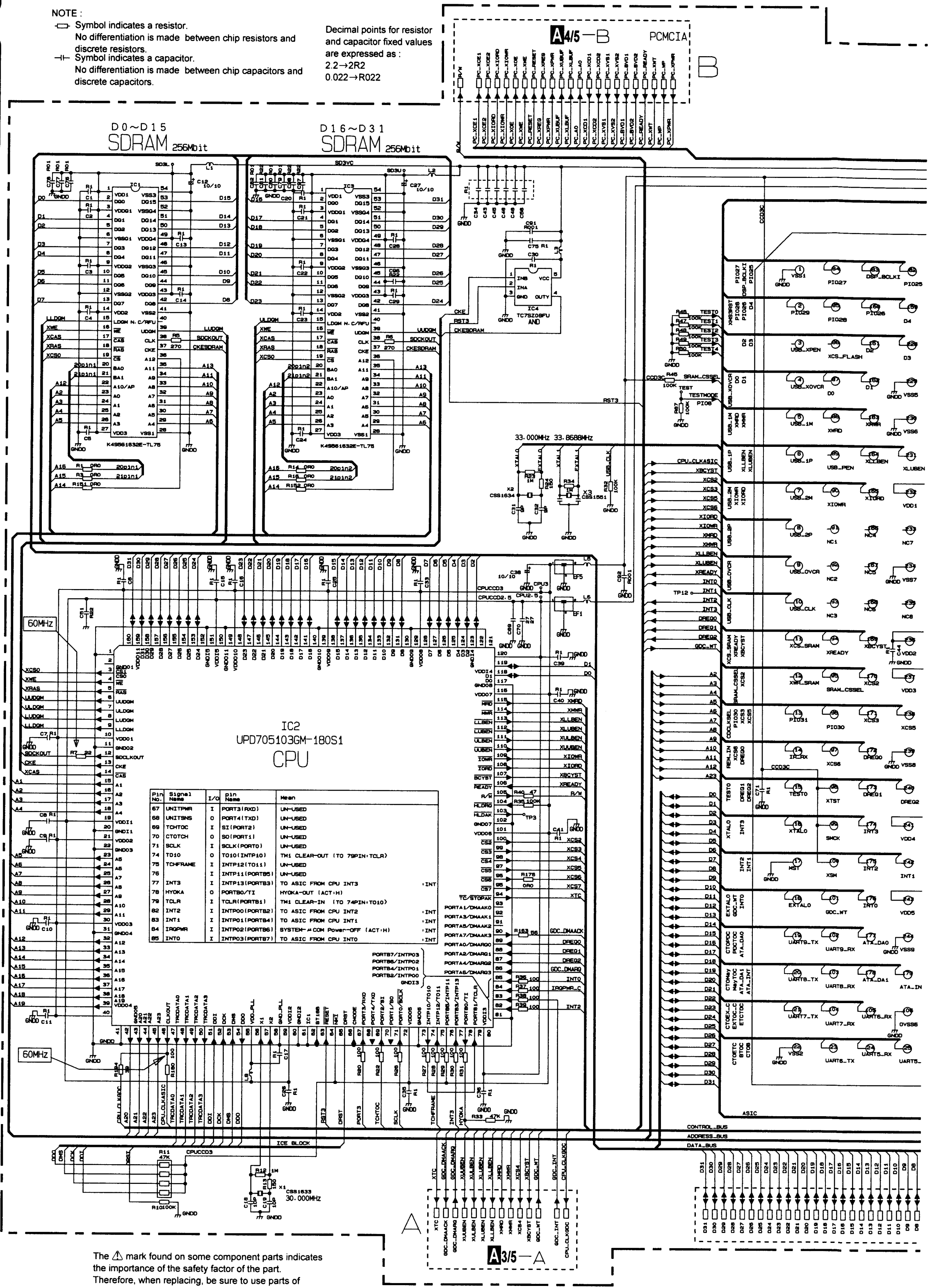
Note: When ordering service parts, be sure to refer to " EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".

A-a 1/5


Large size SCH diagram
A-a
A-b
Guide page
A-a
A-b
Detailed page
A-a
A-b

NOTE :
▭ Symbol indicates a resistor.
No differentiation is made between chip resistors and discrete resistors.
⊣⊢ Symbol indicates a capacitor.
No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as :
2.2→2R2
0.022→R022


A4/5—B
PCMCIA
B
D0~D15
SDRAM 256Mbit
D16~D31
SDRAM 256Mbit
IC1
K4S561632E-TL75
IC3
K4S561632E-TL75
IC4
TC7SZ08FU
AND
33.000MHz
33.8688MHz
X2
CSS1634
X3
CSS1561
IC2
UPD705103GM-180S1
CPU
60MHz
60MHz
ASIC
CONTROL_BUS
ADDRESS_BUS
DATA_BUS
ICE BLOCK
X1
CSS1633
30.000MHz
A
A3/5—A
CCD3C
RST3
CPU_CLKASIC

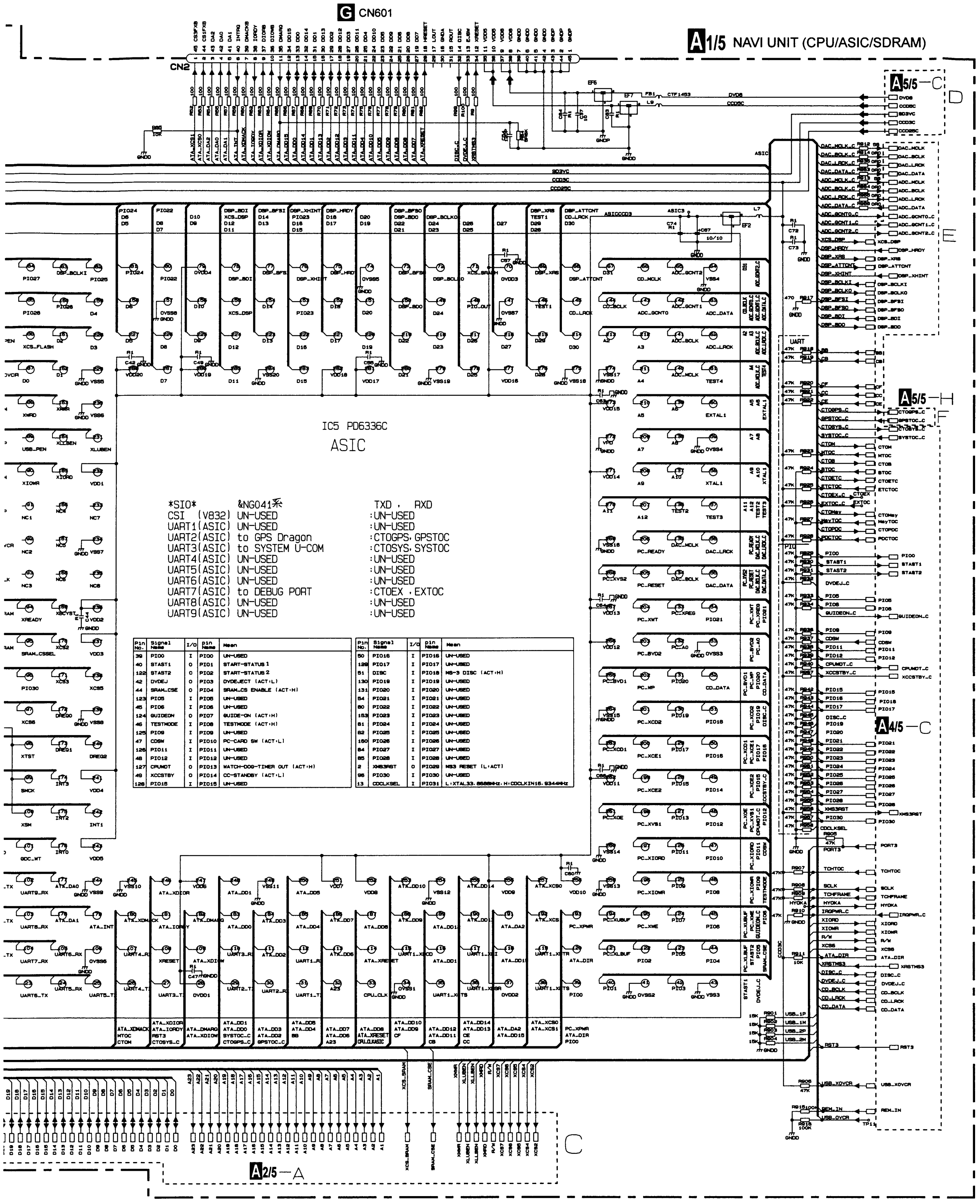
Pin No.	Signal Name	I/O	pin Name	Mean	
67	UNITPWR	I	PORT3(RXD)	UN-USED	
68	UNITSNS	O	PORT4(TXD)	UN-USED	
69	TCHTOC	I	SI(PORT2)	UN-USED	
70	CTOTCH	O	SO(PORT1)	UN-USED	
71	SCLK	I	SCLK(PORT0)	UN-USED	
74	TO10	O	TO10(INTP10)	TM1 CLEAR-OUT (TO 79PIN:TCLR)	
75	TCHFRAME	I	INTP12(TO11)	UN-USED	
76		I	INTP11(PORTB5)	UN-USED	
77	INT3	I	INTP13(PORTB3)	TO ASIC FROM CPU INT3	:INT
78	HYOKA	O	PORTB0/TI	HYOKA-OUT (ACT:H)	
79	TCLR	I	TCLR(PORTB1)	TM1 CLEAR-IN (TO 74PIN:TO10)	
82	INT2	I	INTP00(PORTB2)	TO ASIC FROM CPU INT2	:INT
83	INT1	I	INTP01(PORTB4)	TO ASIC FROM CPU INT1	:INT
84	IRQPWR	I	INTP02(PORTB6)	SYSTEM-μCOM Power-OFF (ACT:H)	:INT
85	INT0	I	INTP03(PORTB7)	TO ASIC FROM CPU INT0	:INT

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
Therefore, when replacing, be sure to use parts of identical designation.

A 1/5

A-b 1/5

A 1/5 NAVI UNIT (CPU/ASIC/SDRAM)



SIO &NG041系 TXD , RXD
CSI (V832) UN-USED :UN-USED
UART1(ASIC) UN-USED :UN-USED
UART2(ASIC) to GPS Dragon :CTOGPS, GPSTOC
UART3(ASIC) to SYSTEM U-COM :CTOSYS, SYSTOC
UART4(ASIC) UN-USED :UN-USED
UART5(ASIC) UN-USED :UN-USED
UART6(ASIC) UN-USED :UN-USED
UART7(ASIC) to DEBUG PORT :CTOEX , EXTOC
UART8(ASIC) UN-USED :UN-USED
UART9(ASIC) UN-USED :UN-USED

Pin No.	Signal Name	I/O	pin Name	Mean
39	PIO0	I	PIO0	UN-USED
40	STAST1	O	PIO1	START-STATUS 1
122	STAST2	O	PIO2	START-STATUS 2
42	DVDEJ	O	PIO3	DVDEJECT (ACT:L)
44	SRAM_CSE	O	PIO4	SRAM_CS ENABLE (ACT:H)
123	PIO5	I	PIO5	UN-USED
45	PIO6	I	PIO6	UN-USED
124	GUIDEON	O	PIO7	GUIDE-ON (ACT:H)
46	TESTMODE	I	PIO8	TESTMODE (ACT:H)
125	PIO9	I	PIO9	UN-USED
47	CDSW	I	PIO10	PC-CARD SW (ACT:L)
126	PIO11	I	PIO11	UN-USED
48	PIO12	I	PIO12	UN-USED
127	CPUWDT	O	PIO13	WATCH-DOG-TIMER OUT (ACT:H)
49	XCCSTBY	O	PIO14	CC-STANDBY (ACT:L)
128	PIO15	I	PIO15	UN-USED

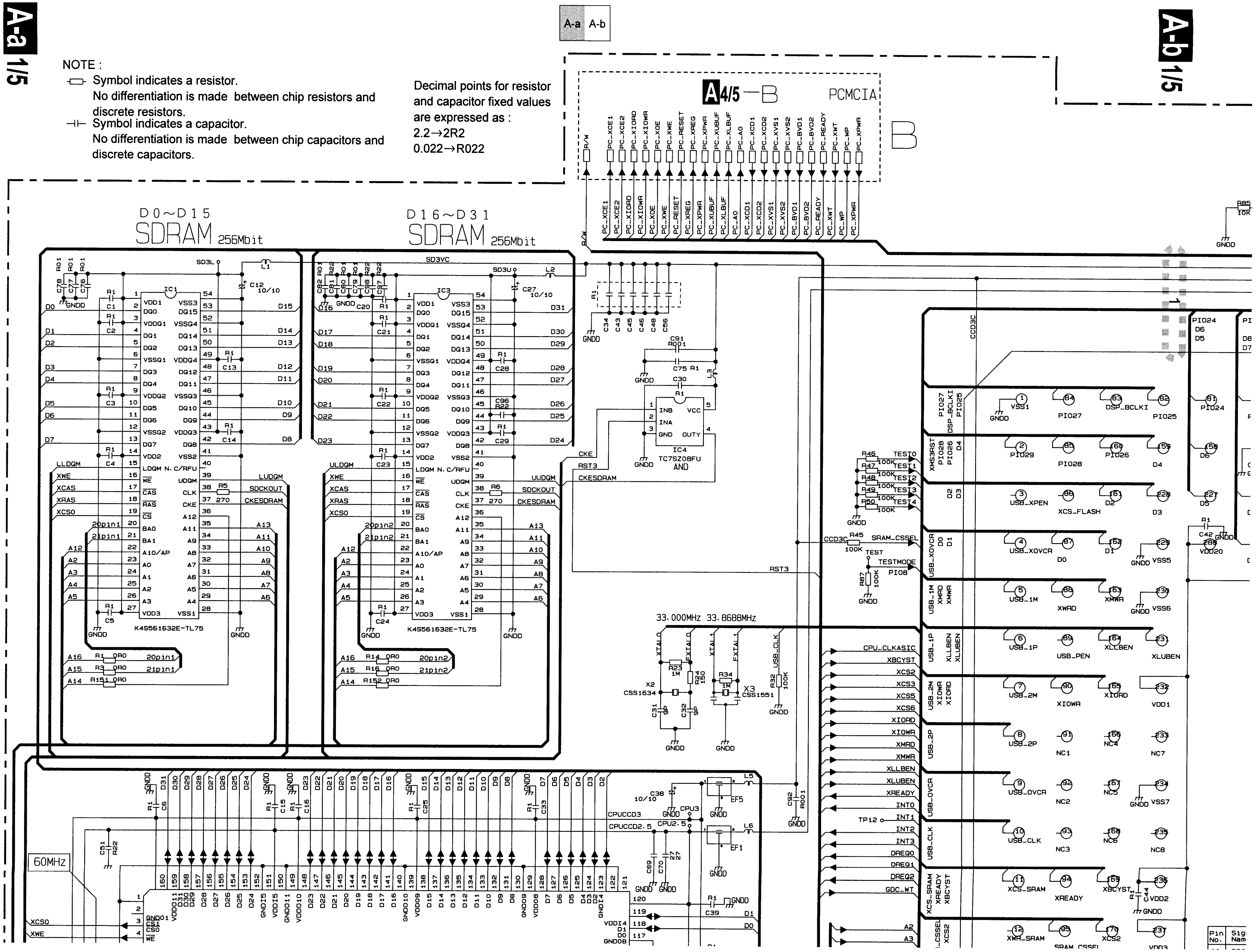
Pin No.	Signal Name	I/O	pin Name	Mean
50	PIO16	I	PIO16	UN-USED
129	PIO17	I	PIO17	UN-USED
51	DISC	I	PIO18	MS-3 DISC (ACT:H)
130	PIO19	I	PIO19	UN-USED
131	PIO20	I	PIO20	UN-USED
54	PIO21	I	PIO21	UN-USED
80	PIO22	I	PIO22	UN-USED
153	PIO23	I	PIO23	UN-USED
81	PIO24	I	PIO24	UN-USED
82	PIO25	I	PIO25	UN-USED
160	PIO26	I	PIO26	UN-USED
84	PIO27	I	PIO27	UN-USED
85	PIO28	I	PIO28	UN-USED
2	XMS3RST	O	PIO29	MS3 RESET (L:ACT)
96	PIO30	I	PIO30	UN-USED
13	CDCLKSEL	I	PIO31	L:XTAL33.8688MHz, H:CDCLKIN16.9344MHz

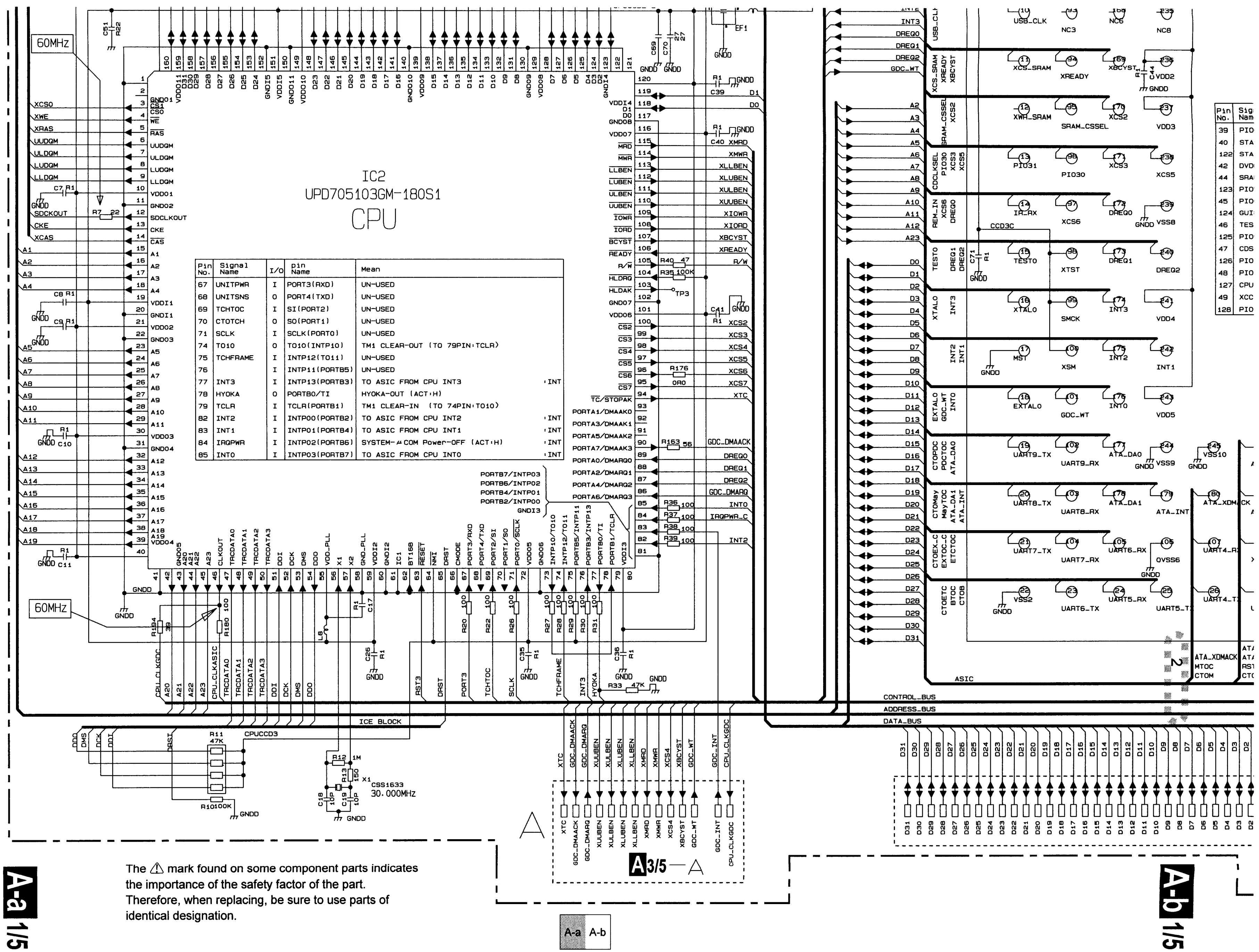
A 1/5

A-a 1/5

NOTE :
- ▭ Symbol indicates a resistor. No differentiation is made between chip resistors and discrete resistors.
- ⊣⊢ Symbol indicates a capacitor. No differentiation is made between chip capacitors and discrete capacitors.

Decimal points for resistor and capacitor fixed values are expressed as :
2.2→2R2
0.022→R022


A-a A-b
A-b 1/5
A4/5 — B
PCMCIA
B
R/W
PC_XCE1
PC_XCE2
PC_XIORD
PC_XIOWR
PC_XOE
PC_XWE
PC_RESET
PC_XREG
PC_XPWR
PC_XUBUF
PC_XLBUF
PC_A0
PC_XCD1
PC_XCD2
PC_XVS1
PC_XVS2
PC_BVD1
PC_BVD2
PC_READY
PC_XWT
PC_WP
PC_XPWR
D0~D15
SDRAM 256Mbit
D16~D31
SDRAM 256Mbit
IC1
IC3
K4S561632E-TL75
SD3L
SD3VC
SD3U
L1
L2
C12 10/10
C27 10/10
IC4
TC7SZ08FU
AND
INB
INA
GND
VCC
OUTY
CKE
RST3
CKESDRAM
33.000MHz
33.8688MHz
XTAL0
EXTAL0
XTAL1
EXTAL1
X2 CSS1634
X3 CSS1551
R23 1M
R24 150
R34 1M
R32 100K
USB_CLK
60MHz
CPUCCD3
CPUCCD2.5
CPU3
CPU2.5
EF5
EF1
L5
L6
C38 10/10
TP12
CCD3C
R45 100K
SRAM_CSSEL
TEST
TESTMODE
PIO8
R87 100K
R46 R47 R48 R49 R50 100K
TEST0
TEST1
TEST2
TEST3
TEST4
CPU_CLKASIC
XBCYST
XCS2
XCS3
XCS5
XCS6
XIORD
XIOWR
XMRD
XMWR
XLLBEN
XLUBEN
XREADY
INT0
INT1
INT2
INT3
DREQ0
DREQ1
DREQ2
GDC_WT
VSS1
PIO27
DSP_BCLKI
PIO25
PIO24
PIO29
PIO28
PIO26
USB_XPEN
XCS_FLASH
USB_XOVCR
USB_1M
USB_1P
USB_PEN
XLLBEN
XLUBEN
USB_2M
USB_2P
USB_OVCR
USB_CLK
XCS_SRAM
XREADY
XBCYST
XWR_SRAM
SRAM_CSSEL
VDD1
VDD2
VDD20
VSS5
VSS6
VSS7
NC1
NC2
NC3
NC4
NC5
NC6
NC7
NC8
GNDD
Pin No.
Sig Nam


IC2
UPD705103GM-180S1
CPU
60MHz
A-a 1/5
A-b 1/5
A3/5 — A
A-a A-b
ICE BLOCK
CONTROL_BUS
ADDRESS_BUS
DATA_BUS
ASIC
X1 CSS1633 30.000MHz
CPUCCD3

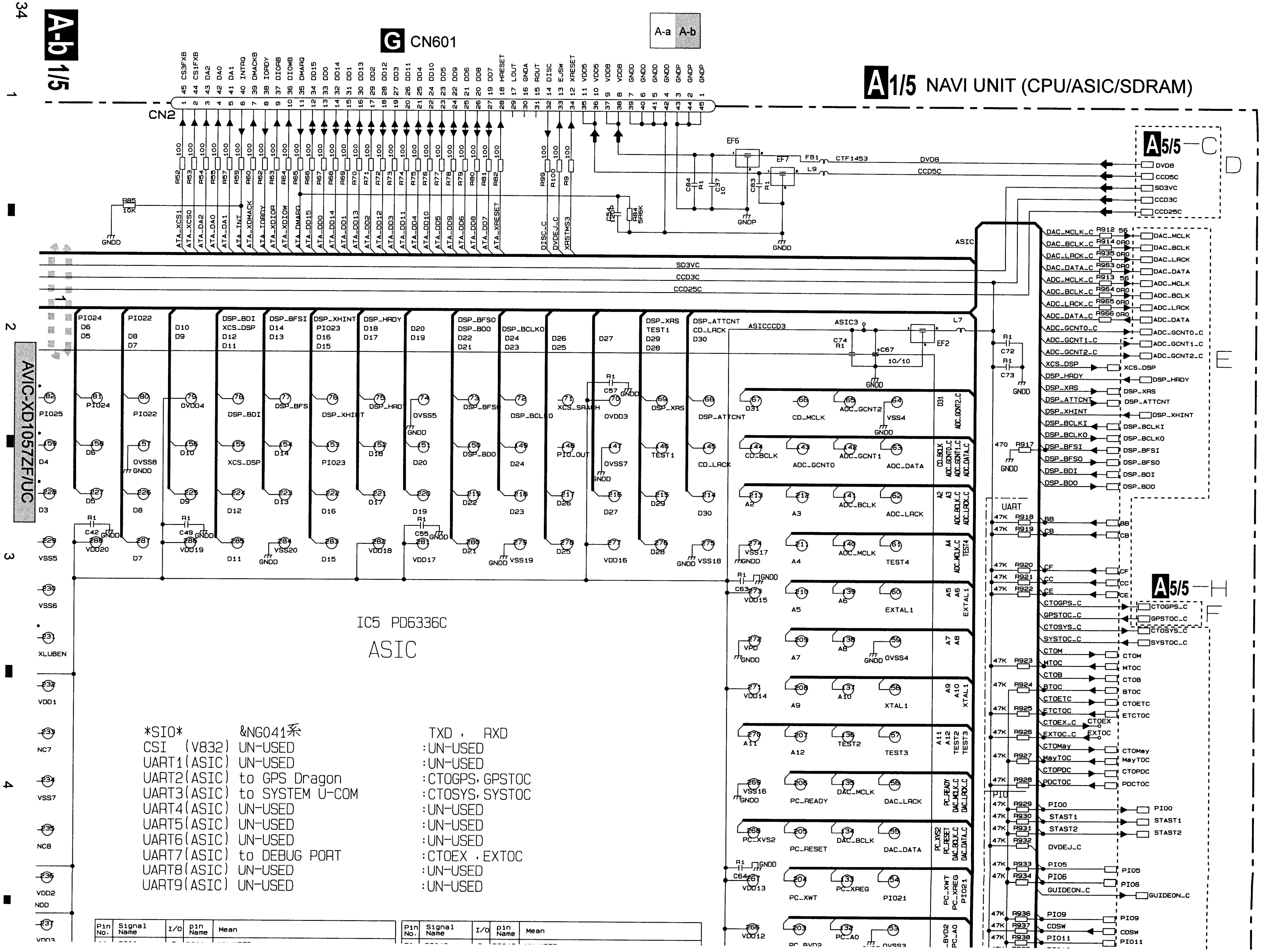
Pin No.	Signal Name	I/O	pin Name	Mean	
67	UNITPWR	I	PORT3(RXD)	UN-USED	
68	UNITSNS	O	PORT4(TXD)	UN-USED	
69	TCHTOC	I	SI(PORT2)	UN-USED	
70	CTOTCH	O	SO(PORT1)	UN-USED	
71	SCLK	I	SCLK(PORT0)	UN-USED	
74	TO10	O	TO10(INTP10)	TM1 CLEAR-OUT (TO 79PIN:TCLR)	
75	TCHFRAME	I	INTP12(TO11)	UN-USED	
76		I	INTP11(PORTB5)	UN-USED	
77	INT3	I	INTP13(PORTB3)	TO ASIC FROM CPU INT3	:INT
78	HYOKA	O	PORTB0/TI	HYOKA-OUT (ACT:H)	
79	TCLR	I	TCLR(PORTB1)	TM1 CLEAR-IN (TO 74PIN:TO10)	
82	INT2	I	INTP00(PORTB2)	TO ASIC FROM CPU INT2	:INT
83	INT1	I	INTP01(PORTB4)	TO ASIC FROM CPU INT1	:INT
84	IRQPWR	I	INTP02(PORTB6)	SYSTEM-μCOM Power-OFF (ACT:H)	:INT
85	INT0	I	INTP03(PORTB7)	TO ASIC FROM CPU INT0	:INT

The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

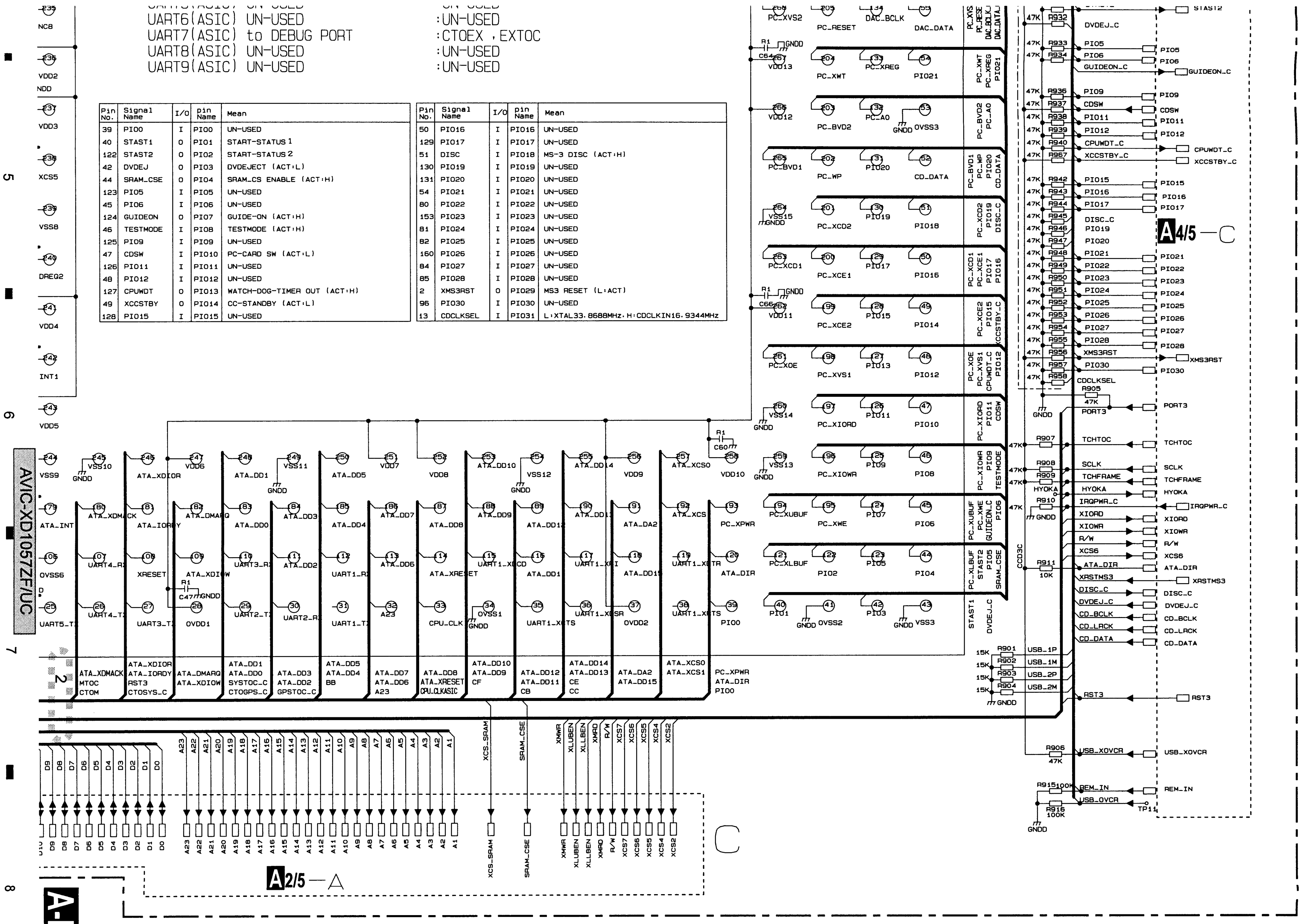
A-b 1/5

A 1/5 NAVI UNIT (CPU/ASIC/SDRAM)

AVIC-XD1057ZF/UC


G CN601
CN2
A-a A-b
IC5 PD6336C
ASIC
A 5/5 — C
A 5/5 — H
UART
PIO

```
*SIO*          &NG041系          TXD ,  RXD
CSI  (V832) UN-USED             :UN-USED
UART1(ASIC) UN-USED             :UN-USED
UART2(ASIC) to GPS Dragon       :CTOGPS,GPSTOC
UART3(ASIC) to SYSTEM U-COM     :CTOSYS,SYSTOC
UART4(ASIC) UN-USED             :UN-USED
UART5(ASIC) UN-USED             :UN-USED
UART6(ASIC) UN-USED             :UN-USED
UART7(ASIC) to DEBUG PORT       :CTOEX ,EXTOC
UART8(ASIC) UN-USED             :UN-USED
UART9(ASIC) UN-USED             :UN-USED
```

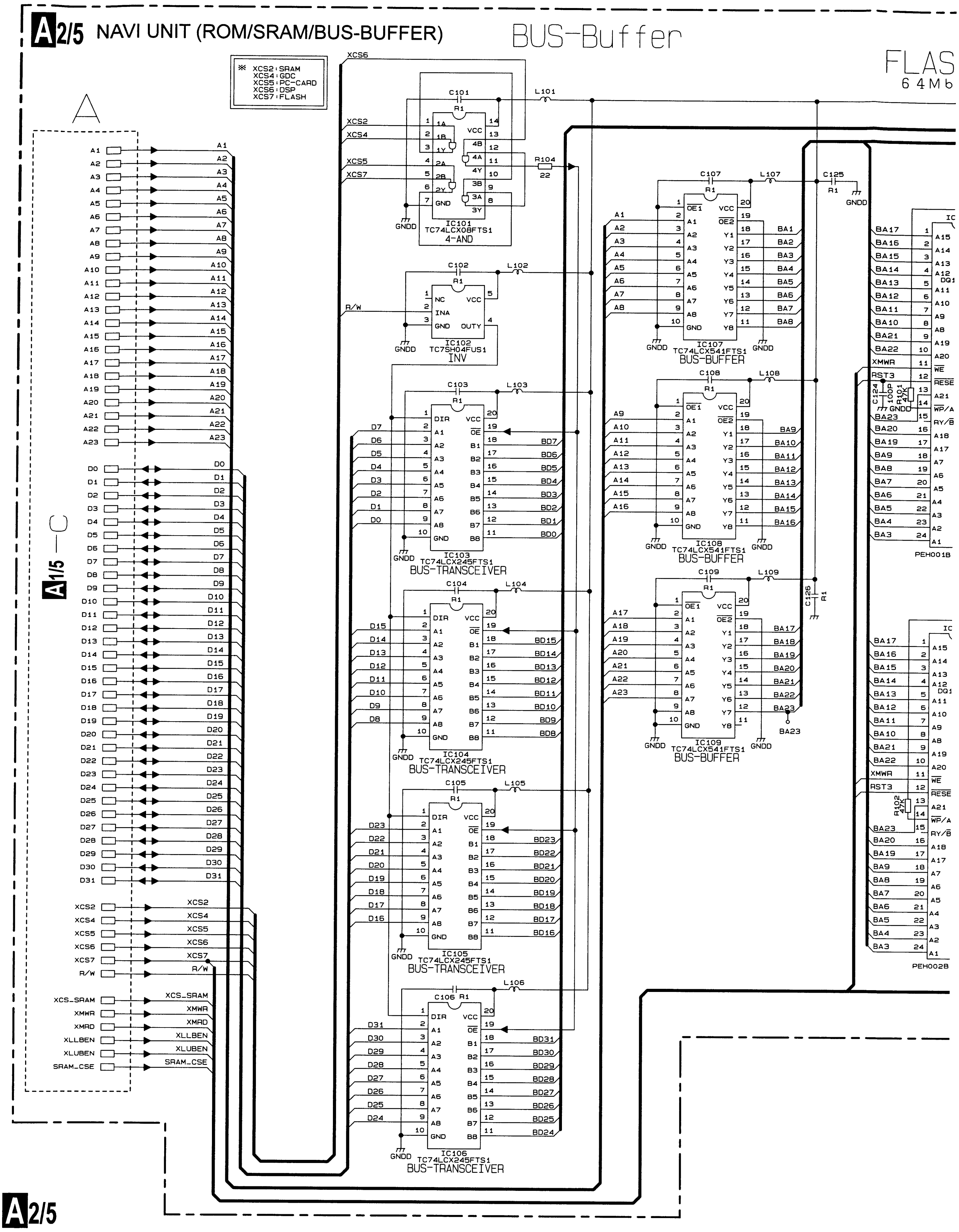

A-b 1/5
A2/5 — A
A4/5 — C
NC8
VDD2
NDD
VDD3
XCS5
VSS8
DREQ2
VDD4
INT1
VDD5
VSS9
ATA_INT
OVSS6
UART5_T
VSS10
ATA_XDMACK
UART4_R
UART4_T
ATA_XDIOR
ATA_IORDY
XRESET
UART3_T
VDD6
ATA_DMARQ
ATA_XDIOW
C47
OVDD1
ATA_DD1
ATA_DD0
UART3_R
UART2_T
VSS11
ATA_DD3
ATA_DD2
UART2_R
ATA_DD5
ATA_DD4
UART1_R
UART1_T
VDD7
ATA_DD7
ATA_DD6
A23
VDD8
ATA_DD8
ATA_XRESET
CPU_CLK
ATA_DD10
ATA_DD9
UART1_XDCD
OVSS1
VSS12
ATA_DD12
ATA_DD11
UART1_XDTS
ATA_DD14
ATA_DD13
UART1_XRI
UART1_XDSR
VDD9
ATA_DA2
ATA_DD15
OVDD2
ATA_XCS0
ATA_XCS1
UART1_XDTR
UART1_XRTS
VDD10
C60
PC_XPWR
ATA_DIR
PIO0
GNDD
R1
ATA_XDMACK MTOC CTOM
ATA_XDIOR ATA_IORDY RST3 CTOSYS_C
ATA_DMARQ ATA_XDIOW
ATA_DD1 ATA_DD0 SYSTOC_C CTOGPS_C
ATA_DD3 ATA_DD2 GPSTOC_C
ATA_DD5 ATA_DD4 BB
ATA_DD7 ATA_DD6 A23
ATA_DD8 ATA_XRESET CPU_CLKASIC
ATA_DD10 ATA_DD9 CF
ATA_DD12 ATA_DD11 CB
ATA_DD14 ATA_DD13 CE CC
ATA_DA2 ATA_DD15
ATA_XCS0 ATA_XCS1
PC_XPWR ATA_DIR PIO0
D0 D1 D2 D3 D4 D5 D6 D7 D8 D9
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A22 A23
XCS_SRAM
SRAM_CSE
XMWR
XLUBEN
XLLBEN
XMRD
R/W
XCS7
XCS6
XCS5
XCS4
XCS2
PC_XVS2
PC_RESET
DAC_BCLK
DAC_DATA
VDD13
C64
PC_XWT
PC_XREG
PIO21
VDD12
PC_BVD2
PC_A0
OVSS3
PC_BVD1
PC_WP
PIO20
CD_DATA
VSS15
PC_XCD2
PIO19
PIO18
PC_XCD1
PC_XCE1
PIO17
PIO16
VDD11
C66
PC_XCE2
PIO15
PIO14
PC_XOE
PC_XVS1
PIO13
PIO12
VSS14
PC_XIORD
PIO11
PIO10
VSS13
PC_XIOWR
PIO9
PIO8
PC_XUBUF
PC_XWE
PIO7
PIO6
PC_XLBUF
PIO2
PIO5
PIO4
PIO1
OVSS2
PIO3
VSS3
PC_XVS PC_RESE DAC_BCLK DAC_DATA
PC_XWT PC_XREG PIO21
PC_BVD2 PC_A0
PC_BVD1 PC_WP PIO20 CD_DATA
PC_XCD2 PIO19 DISC_C
PC_XCD1 PC_XCE1 PIO17 PIO16
PC_XCE2 PIO15 XCCSTBY_C
PC_XOE PC_XVS1 CPUWDT_C PIO12
PC_XIORD PIO11 CDSW
PC_XIOWR PIO9 TESTMODE
PC_XUBUF PC_XWE GUIDEON_C PIO6
PC_XLBUF STAST2 PIO5 SRAM_CSE
STAST1
DVDEJ_C
CCD3C
47K
R932 R933 R934 R936 R937 R938 R939 R940 R967 R942 R943 R944 R945 R946 R947 R948 R949 R950 R951 R952 R953 R954 R955 R956 R957 R958
R905
R907
R908
R909
R910
R911
10K
R901 R902 R903 R904
15K
R906
R915
100K
R916
100K
STAST2
DVDEJ_C
PIO5
PIO6
GUIDEON_C
PIO9
CDSW
PIO11
PIO12
CPUWDT_C
XCCSTBY_C
PIO15
PIO16
PIO17
DISC_C
PIO19
PIO20
PIO21
PIO22
PIO23
PIO24
PIO25
PIO26
PIO27
PIO28
XMS3RST
PIO30
CDCLKSEL
PORT3
TCHTOC
SCLK
TCHFRAME
HYOKA
IRQPWR_C
XIORD
XIOWR
R/W
XCS6
ATA_DIR
XRSTMS3
DISC_C
DVDEJ_C
CD_BCLK
CD_LRCK
CD_DATA
USB_1P
USB_1M
USB_2P
USB_2M
RST3
USB_XOVCR
REM_IN
USB_OVCR
TP11
A-a
A-b

UART6(ASIC) UN-USED :UN-USED
UART7(ASIC) to DEBUG PORT :CTOEX , EXTOC
UART8(ASIC) UN-USED :UN-USED
UART9(ASIC) UN-USED :UN-USED

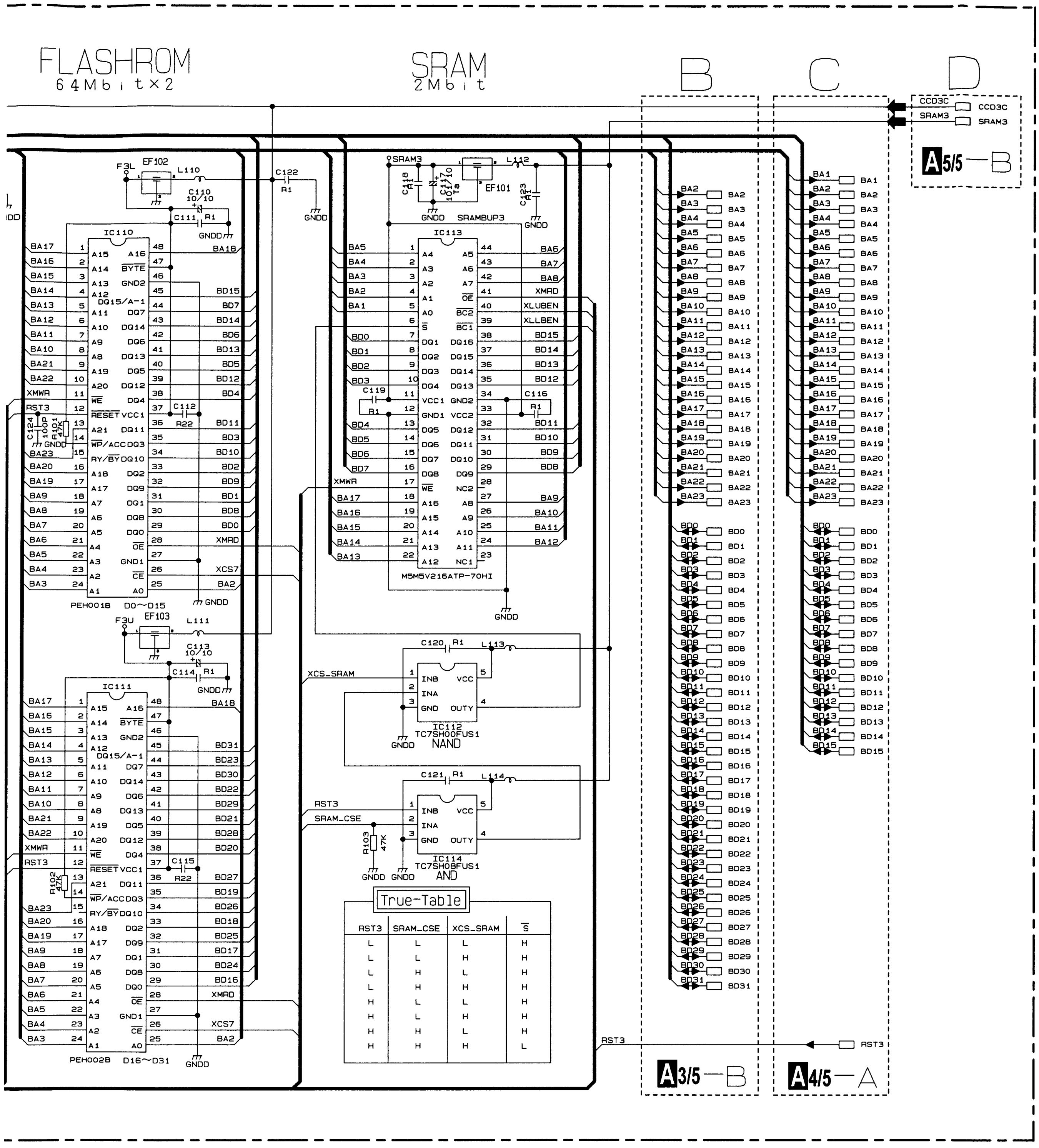
Pin No.	Signal Name	I/O	pin Name	Mean
39	PIO0	I	PIO0	UN-USED
40	STAST1	O	PIO1	START-STATUS 1
122	STAST2	O	PIO2	START-STATUS 2
42	DVDEJ	O	PIO3	DVDEJECT (ACT:L)
44	SRAM_CSE	O	PIO4	SRAM_CS ENABLE (ACT:H)
123	PIO5	I	PIO5	UN-USED
45	PIO6	I	PIO6	UN-USED
124	GUIDEON	O	PIO7	GUIDE-ON (ACT:H)
46	TESTMODE	I	PIO8	TESTMODE (ACT:H)
125	PIO9	I	PIO9	UN-USED
47	CDSW	I	PIO10	PC-CARD SW (ACT:L)
126	PIO11	I	PIO11	UN-USED
48	PIO12	I	PIO12	UN-USED
127	CPUWDT	O	PIO13	WATCH-DOG-TIMER OUT (ACT:H)
49	XCCSTBY	O	PIO14	CC-STANDBY (ACT:L)
128	PIO15	I	PIO15	UN-USED

Pin No.	Signal Name	I/O	pin Name	Mean
50	PIO16	I	PIO16	UN-USED
129	PIO17	I	PIO17	UN-USED
51	DISC	I	PIO18	MS-3 DISC (ACT:H)
130	PIO19	I	PIO19	UN-USED
131	PIO20	I	PIO20	UN-USED
54	PIO21	I	PIO21	UN-USED
80	PIO22	I	PIO22	UN-USED
153	PIO23	I	PIO23	UN-USED
81	PIO24	I	PIO24	UN-USED
82	PIO25	I	PIO25	UN-USED
160	PIO26	I	PIO26	UN-USED
84	PIO27	I	PIO27	UN-USED
85	PIO28	I	PIO28	UN-USED
2	XMS3RST	O	PIO29	MS3 RESET (L:ACT)
96	PIO30	I	PIO30	UN-USED
13	CDCLKSEL	I	PIO31	L:XTAL33.8688MHz.H:CDCLKIN16.9344MHz

3.4 NAVI UNIT(ROM/SRAM/BUS-BUFFER PART)



A2/5 NAVI UNIT (ROM/SRAM/BUS-BUFFER)
BUS-Buffer
FLAS
64Mb
※ XCS2:SRAM
XCS4:GDC
XCS5:PC-CARD
XCS6:DSP
XCS7:FLASH
A
A1/5 —C
A1–A23
D0–D31
XCS2
XCS4
XCS5
XCS6
XCS7
R/W
XCS_SRAM
XMWR
XMRD
XLLBEN
XLUBEN
SRAM_CSE
IC101 TC74LCX08FTS1 4-AND
IC102 TC7SH04FUS1 INV
IC103 TC74LCX245FTS1 BUS-TRANSCEIVER
IC104 TC74LCX245FTS1 BUS-TRANSCEIVER
IC105 TC74LCX245FTS1 BUS-TRANSCEIVER
IC106 TC74LCX245FTS1 BUS-TRANSCEIVER
IC107 TC74LCX541FTS1 BUS-BUFFER
IC108 TC74LCX541FTS1 BUS-BUFFER
IC109 TC74LCX541FTS1 BUS-BUFFER
C101
C102
C103
C104
C105
C106
C107
C108
C109
C124 100P
C125
C126
L101
L102
L103
L104
L105
L106
L107
L108
L109
R104 22
R101 47K
R102 47K
R1
GNDD
BD0–BD31
BA1–BA23
RST3
PEH001B
PEH002B
IC
A2/5



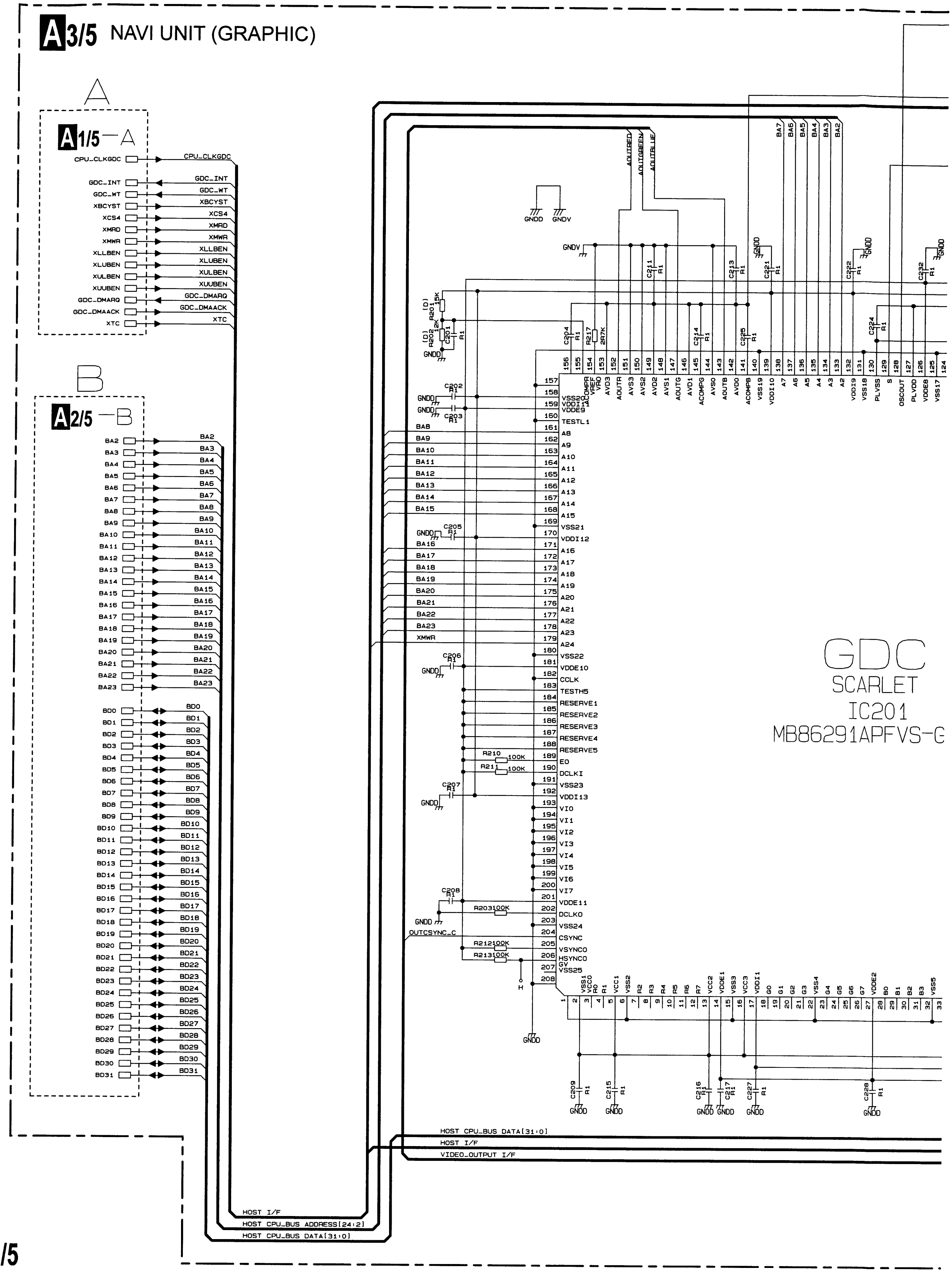
FLASHROM
64Mbit×2
SRAM
2Mbit
B
C
D
IC110
PEH001B D0~D15
IC111
PEH002B D16~D31
IC113
M5M5V216ATP-70HI
IC112
TC7SH00FUS1
NAND
IC114
TC7SH08FUS1
AND
EF101
EF102
EF103
F3L
F3U
L110
L111
L112
L113
L114
C110 10/10
C113 10/10
C111 R1
C114 R1
C112 R22
C115 R22
C116 R1
C117 10/10 Ta
C118 R1
C119 R1
C120 R1
C121 R1
C122 R1
C123 R1
C124 100P
R101 47K
R102 47K
R103 47K
GNDD
SRAMBUP3
SRAM3
CCD3C
XCS_SRAM
SRAM_CSE
RST3
XMWR
XMRD
XCS7
XLUBEN
XLLBEN
A5/5—B
A3/5—B
A4/5—A

True-Table

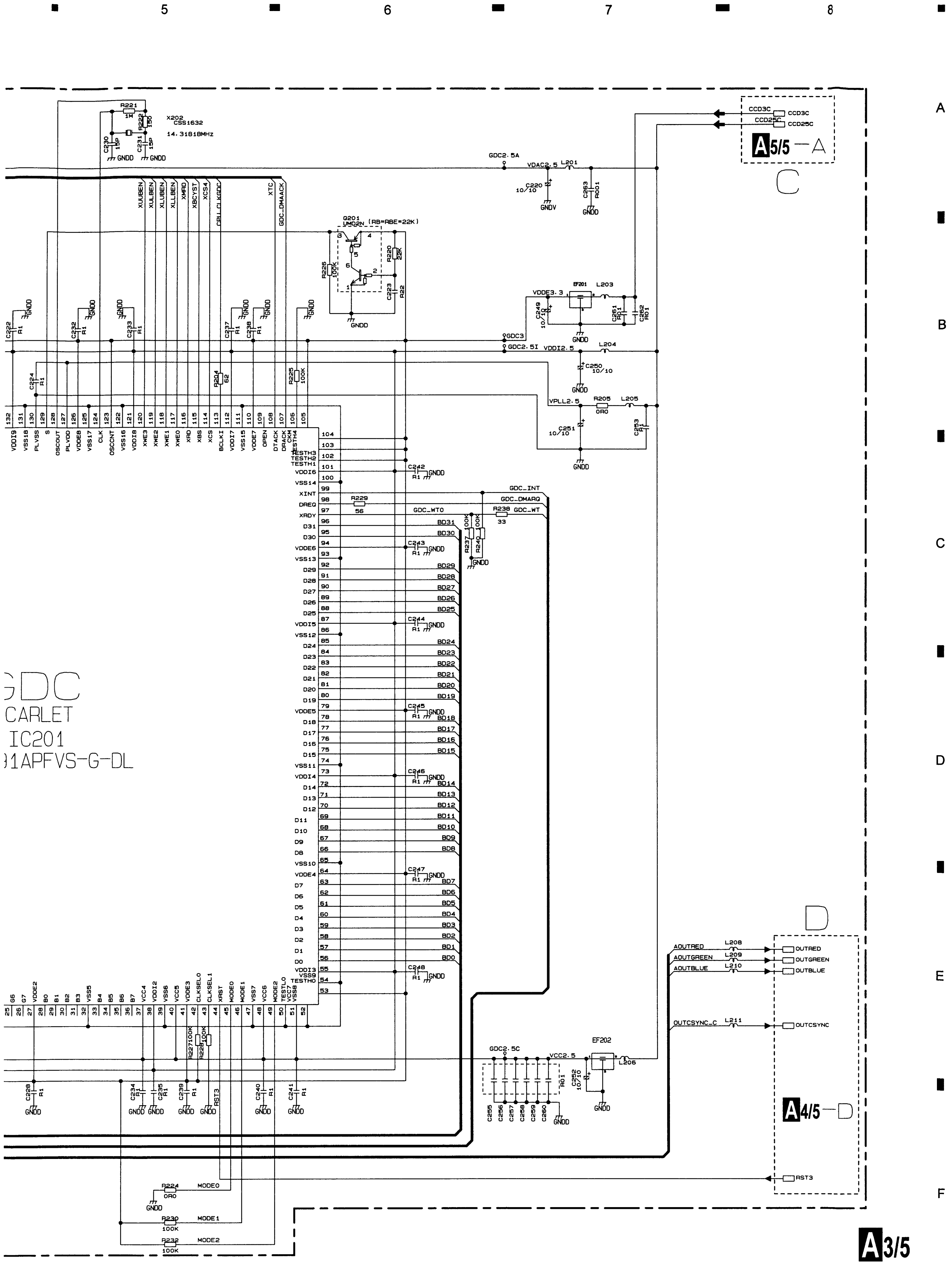
RST3	SRAM_CSE	XCS_SRAM	$\overline{S}$
L	L	L	H
L	L	H	H
L	H	L	H
L	H	H	H
H	L	L	H
H	L	H	H
H	H	L	H
H	H	H	L

A2/5

3.5 NAVI UNIT(GRAPHIC PART)



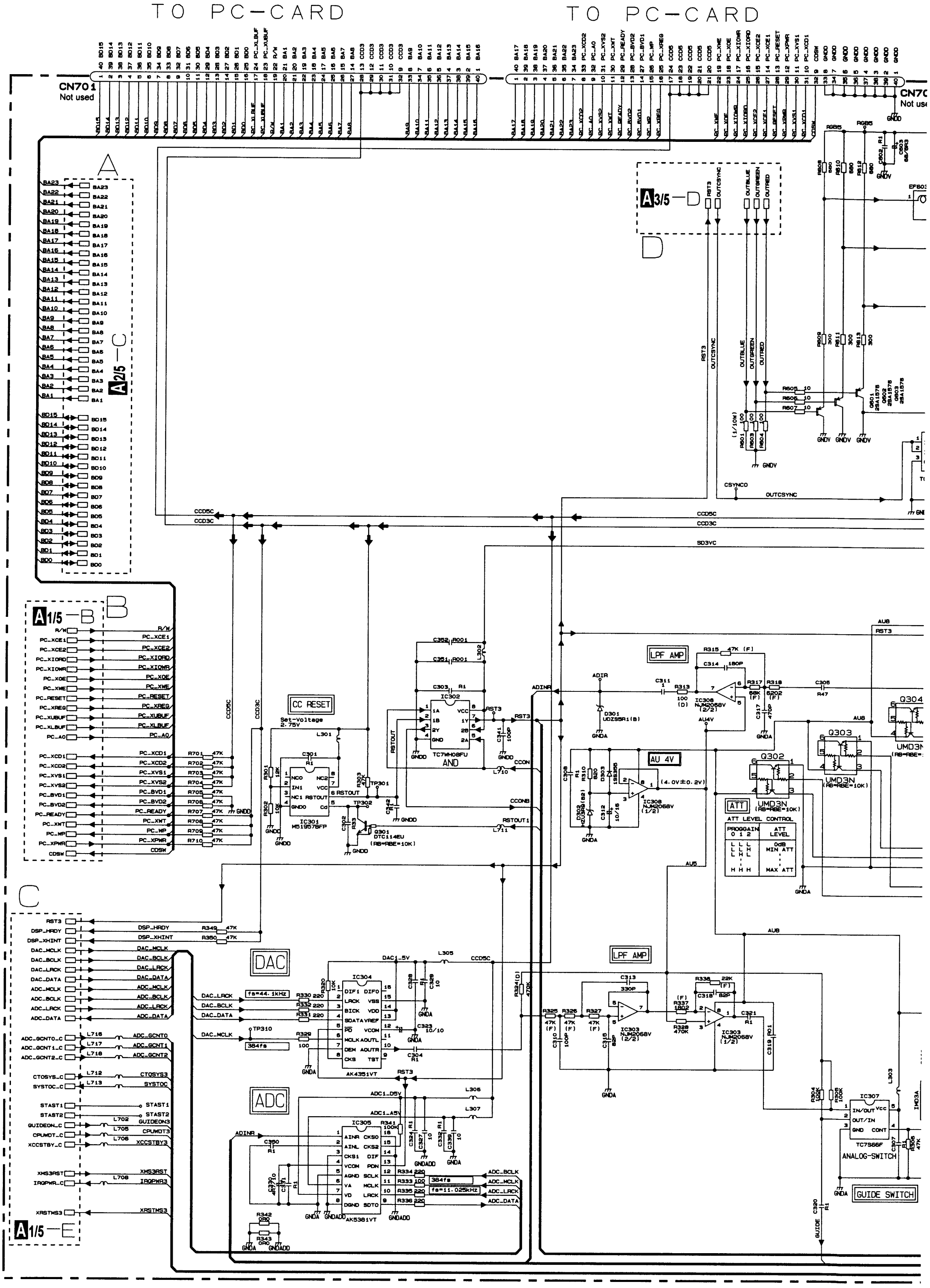
A3/5 NAVI UNIT (GRAPHIC)
A
A1/5—A
CPU_CLKGDC
GDC_INT
GDC_WT
XBCYST
XCS4
XMRD
XMWR
XLLBEN
XLUBEN
XULBEN
XUUBEN
GDC_DMARQ
GDC_DMAACK
XTC
B
A2/5—B
BA2 … BA23
BD0 … BD31
HOST I/F
HOST CPU_BUS ADDRESS[24:2]
HOST CPU_BUS DATA[31:0]
VIDEO_OUTPUT I/F
AOUTRED
AOUTGREEN
AOUTBLUE
GNDD
GNDV
OUTCSYNC_C
R201 15K (D)
R202 1K (D)
R203 100K
R210 100K
R211 100K
R212 100K
R213 100K
R217 2R7K
C201 C202 C203 C204 C205 C206 C207 C208 C209 C211 C213 C214 C215 C216 C217 C221 C222 C224 C225 C227 C228 C232
GDC
SCARLET
IC201
MB86291APFVS-G
A3/5


GDC
CARLET
IC201
31APFVS-G-DL
A5/5 — A
C
CCD3C
CCD25C
GDC2.5A
VDAC2.5
L201
C220 10/10
GNDV
C263 R001
X202 CSS1632
14.31818MHz
R221 1M
R222 150
C230 15P
C231 15P
GNDD
Q201 UMD2N (RB=RBE=22K)
R220 22K
R226 100K
C223
R22
EF201
L203
VDDE3.3
C249 10/10
C261 R01
C262 R01
GDC3
GDC2.5I
VDDI2.5
L204
C250 10/10
VPLL2.5
R205 0R0
L205
C251 10/10
C253 R1
XUUBEN
XULBEN
XLUBEN
XLLBEN
XMRD
XBCYST
XCS4
CPU_CLKGDC
XTC
GDC_DMAACK
R204 62
R225 100K
C222
C224
C232
C233
C237
C238
C242
C243
C244
C245
C246
C247
C248
GDC_INT
GDC_DMARQ
GDC_WT
GDC_WT0
R229 56
R238 33
R237 100K
R240 100K
BD0 … BD31
D
AOUTRED
AOUTGREEN
AOUTBLUE
OUTCSYNC_C
L208
L209
L210
L211
OUTRED
OUTGREEN
OUTBLUE
OUTCSYNC
RST3
A4/5 — D
EF202
GDC2.5C
VCC2.5
L206
C252 10/10
C255
C256
C257
C258
C259
C260
R01
C228
C234
C235
C239
C240
C241
R227 100K
R228 100K
R224 0R0
R230 100K
R232 100K
MODE0
MODE1
MODE2
A
B
C
D
E
F
5
6
7
8

A3/5

3.6 NAVI UNIT(AUDIO/MONITOR IF PART)(GUIDE PAGE)

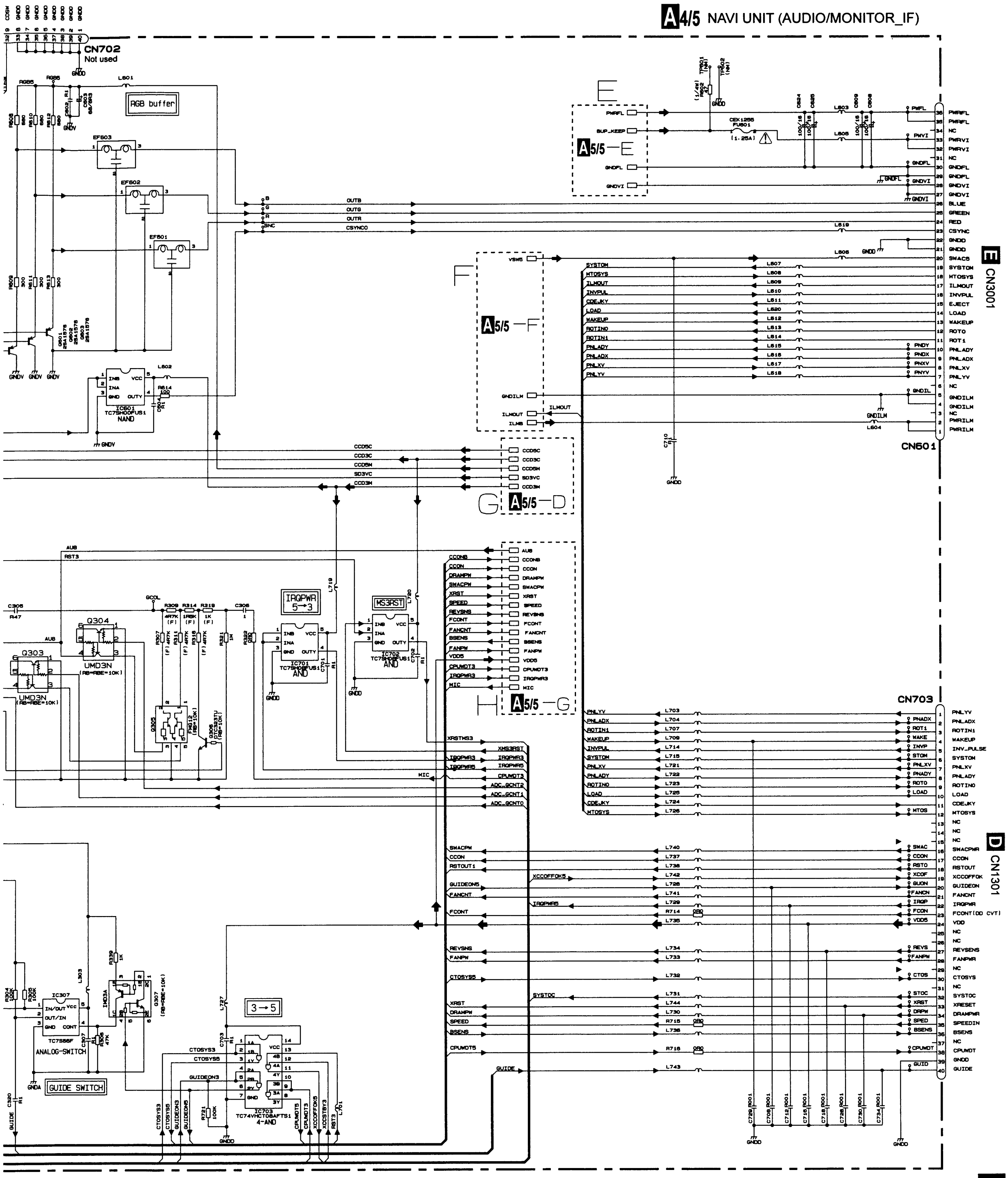
A-a 4/5

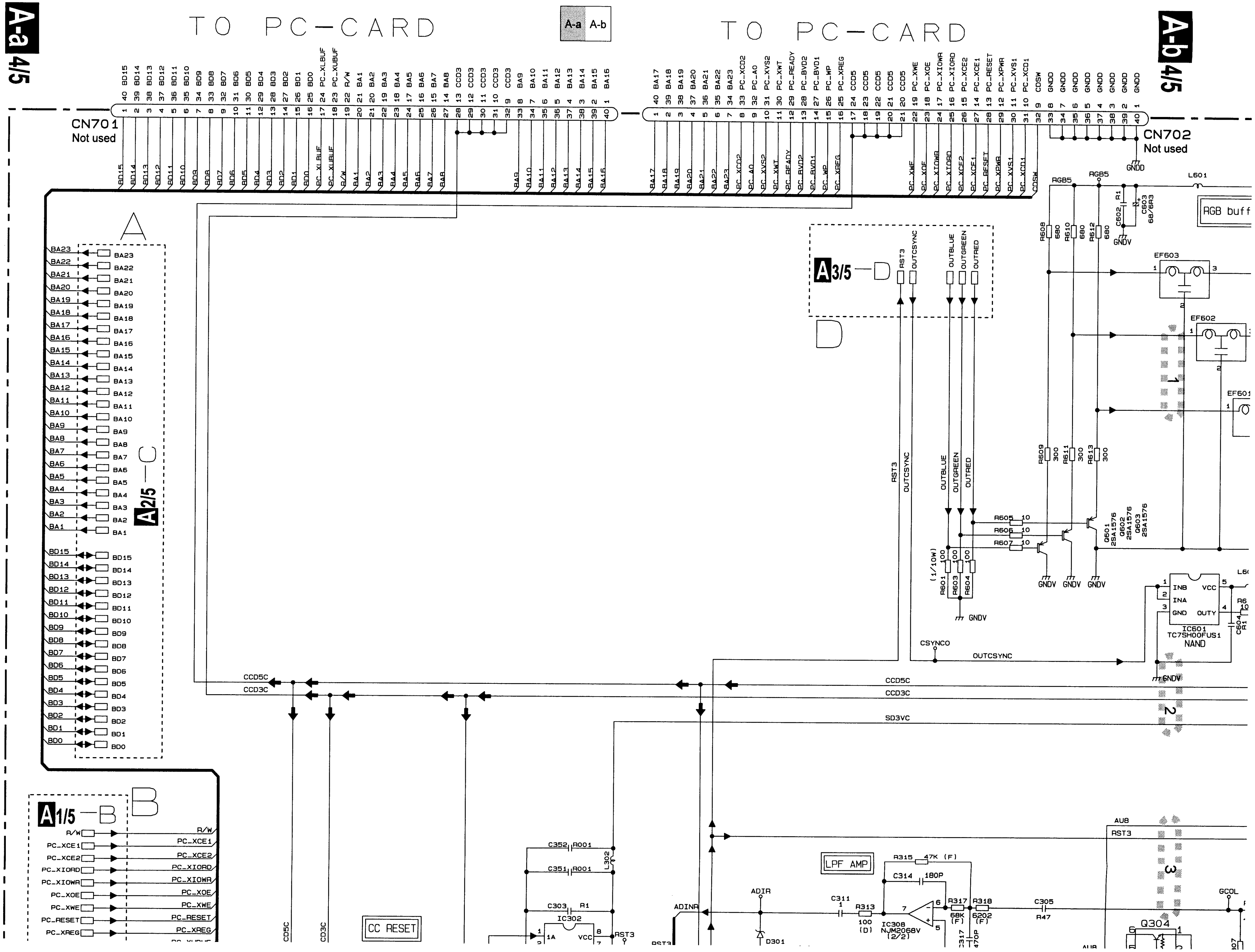

TO PC-CARD
TO PC-CARD
CN701
Not used
CN70
A
A2/5—C
B
A1/5—B
C
D
A3/5—D
RST3
OUTCSYNC
OUTBLUE
OUTGREEN
OUTRED
CC RESET
Set-Voltage 2.75V
IC301 HS1907BFP
IC302 TC7WH08FU
AND
Q301 DTC114EU
DAC
IC304 AK4351VT
ADC
IC305 AK5361VT
fs=44.1kHz
384fs
fs=11.025kHz
LPF AMP
IC308 NJM2068V (2/2)
IC303 NJM2068V (2/2)
IC303 NJM2068V (1/2)
AU 4V
IC306 NJM2068V (1/2)
ATT
UMD3N
Q302
Q303
Q304
ATT LEVEL CONTROL
GUIDE SWITCH
IC307 TC7S66F
ANALOG-SWITCH
A1/5—E
GUIDE

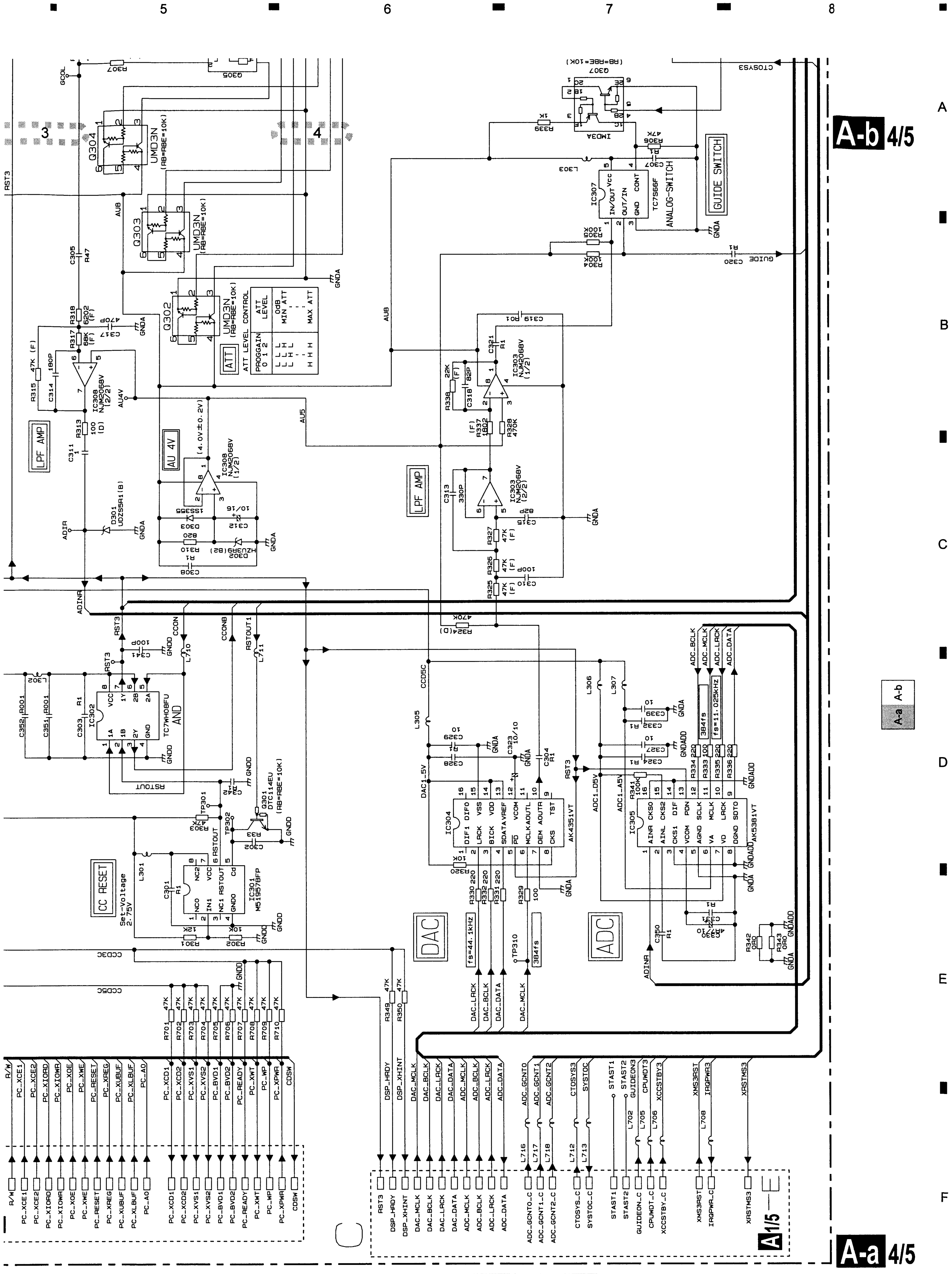
A 4/5

A-b 4/5

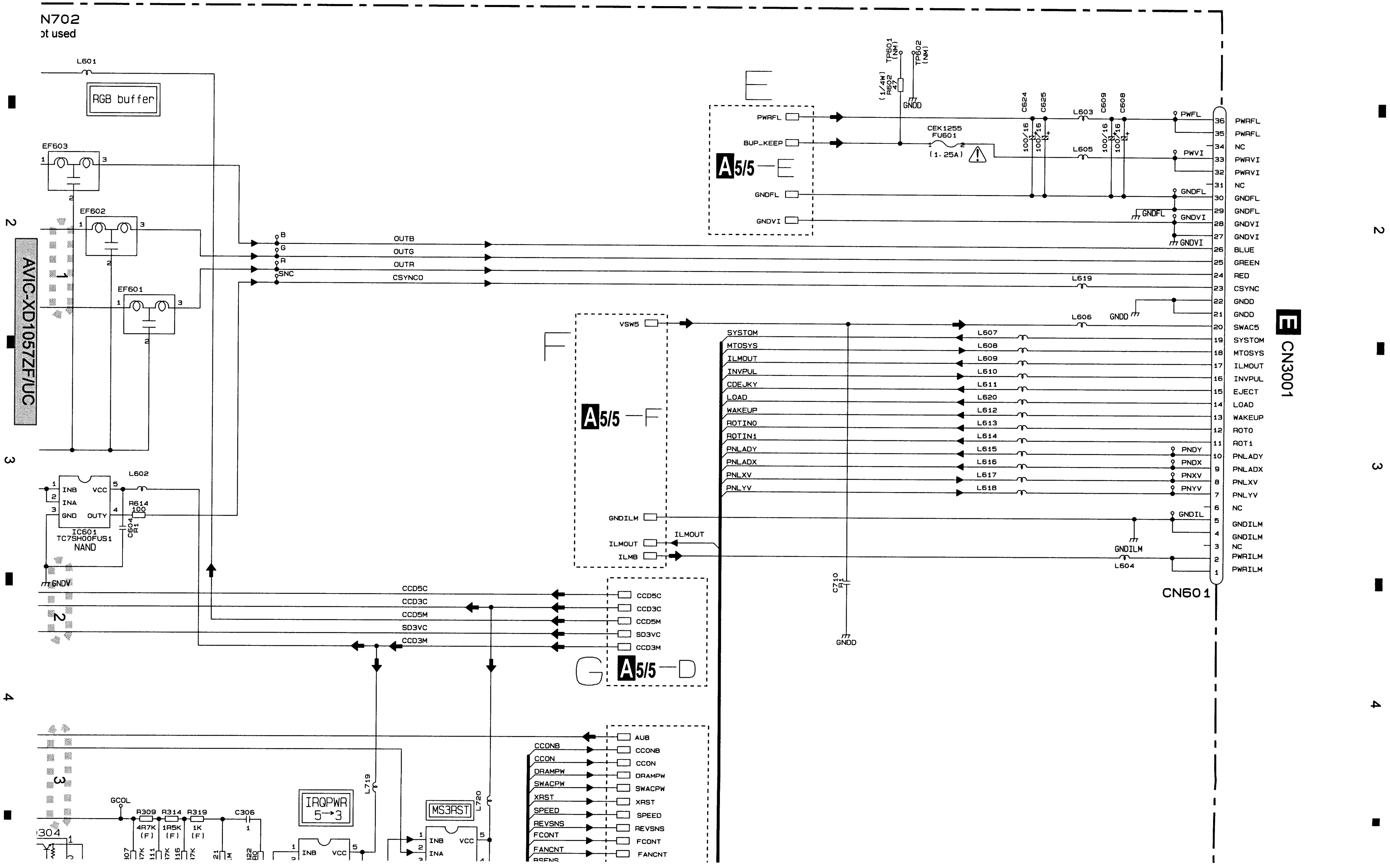
A 4/5 NAVI UNIT (AUDIO/MONITOR_IF)

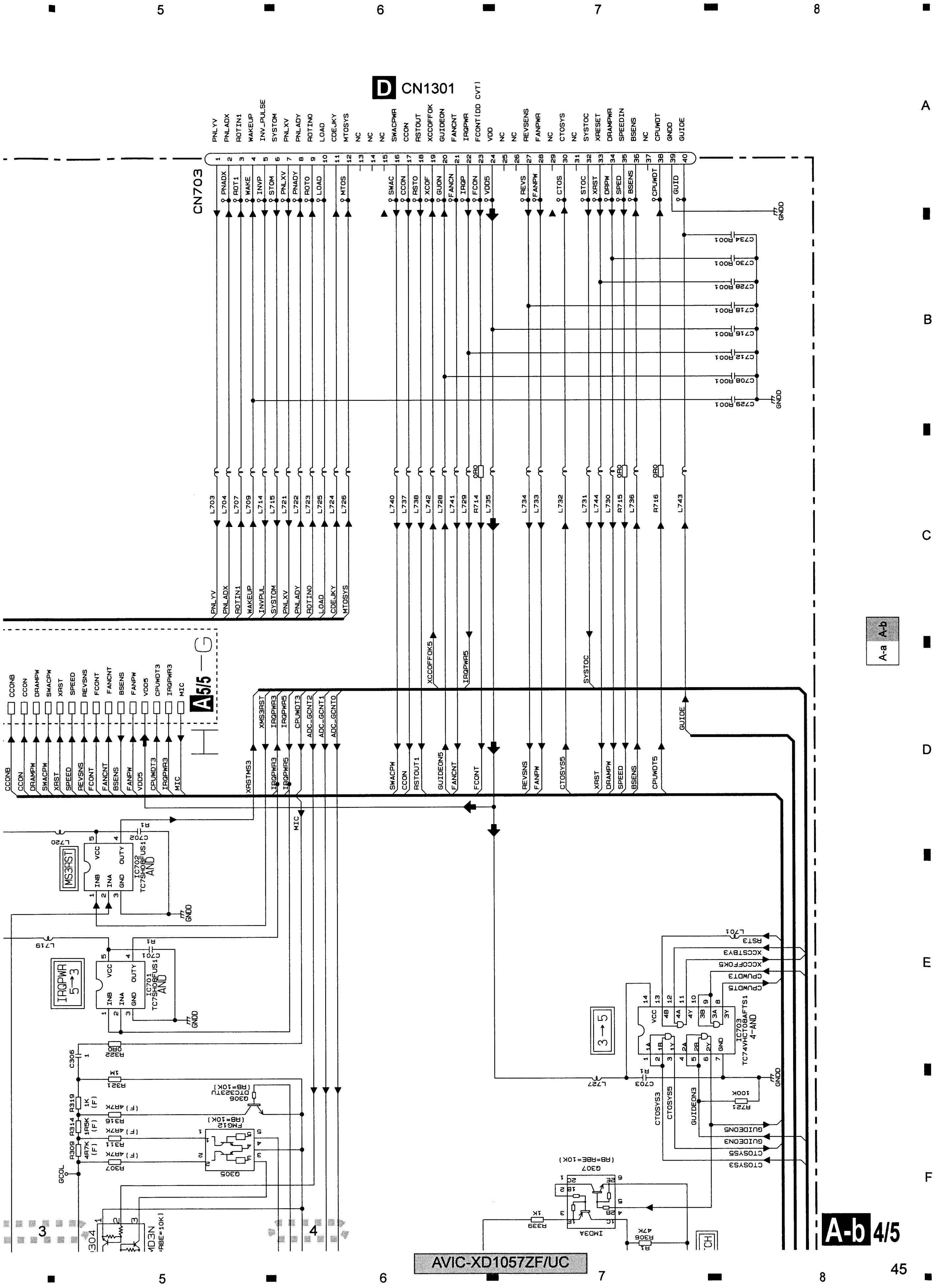

CN702
Not used
RGB buffer
EF603
EF602
EF601
IC601
TC7SH00FUS1
NAND
A5/5 — E
A5/5 — F
A5/5 — D
A5/5 — G
CEX1255
FU601
(1.25A)
E CN3001
CN601
CN703
D CN1301
IRQPWR 5→3
MS3RST
IC701
TC7SH08FUS1
AND
IC702
TC7SH08FUS1
AND
Q304
Q303
UMD3N
(R8=RBE=10K)
Q305
IC307
TC7S66F
ANALOG-SWITCH
GUIDE SWITCH
IMD3A
Q307
3→5
IC703
TC74VHCT08AFTS1
4-AND
OUTB
OUTG
OUTR
CSYNCO
CCD5C
CCD3C
CCD5M
SD3VC
CCD3M
PWRFL
PWRVI
GNDFL
GNDVI
BLUE
GREEN
RED
CSYNC
GNDD
SWACS
SYSTOM
MTOSYS
ILMOUT
INVPUL
EJECT
LOAD
WAKEUP
ROTO
ROT1
PNLADY
PNLADX
PNLXV
PNLYV
NC
GNDILM
PWRILM
ROTIN1
INV_PULSE
PNLXV
ROTINO
CDEJKY
SWACPWR
CCON
RSTOUT
XCCOFFOK
GUIDEON
FANCNT
IRQPWR
FCONT(DD CVT)
VDD
REVSENS
FANPWR
CTOSYS
SYSTOC
XRESET
DRAMPWR
SPEEDIN
BSENS
CPUWDT
GUIDE


A-a 4/5
TO PC-CARD
A-a A-b
TO PC-CARD
A-b 4/5
CN701
Not used
1 40 BD15
2 39 BD14
3 38 BD13
4 37 BD12
5 36 BD11
6 35 BD10
7 34 BD9
8 33 BD8
9 32 BD7
10 31 BD6
11 30 BD5
12 29 BD4
13 28 BD3
14 27 BD2
15 26 BD1
16 25 BD0
17 24 PC_XLBUF
18 23 PC_XUBUF
19 22 R/W
20 21 BA1
21 20 BA2
22 19 BA3
23 18 BA4
24 17 BA5
25 16 BA6
26 15 BA7
27 14 BA8
28 13 CCD3
29 12 CCD3
30 11 CCD3
31 10 CCD3
32 9 CCD3
33 8 BA9
34 7 BA10
35 6 BA11
36 5 BA12
37 4 BA13
38 3 BA14
39 2 BA15
40 1 BA16
1 40 BA17
2 39 BA18
3 38 BA19
4 37 BA20
5 36 BA21
6 35 BA22
7 34 BA23
8 33 PC_XCD2
9 32 PC_A0
10 31 PC_XVS2
11 30 PC_XWT
12 29 PC_READY
13 28 PC_BVD2
14 27 PC_BVD1
15 26 PC_WP
16 25 PC_XREG
17 24 CCD5
18 23 CCD5
19 22 CCD5
20 21 CCD5
21 20 CCD5
22 19 PC_XWE
23 18 PC_XOE
24 17 PC_XIOWR
25 16 PC_XIORD
26 15 PC_XCE2
27 14 PC_XCE1
28 13 PC_RESET
29 12 PC_XPWR
30 11 PC_XVS1
31 10 PC_XCD1
32 9 CDSW
33 8 GNDD
34 7 GNDD
35 6 GNDD
36 5 GNDD
37 4 GNDD
38 3 GNDD
39 2 GNDD
40 1 GNDD
CN702
Not used
GNDD
A
A2/5 — C
BA23 BA22 BA21 BA20 BA19 BA18 BA17 BA16 BA15 BA14 BA13 BA12 BA11 BA10 BA9 BA8 BA7 BA6 BA5 BA4 BA3 BA2 BA1
BD15 BD14 BD13 BD12 BD11 BD10 BD9 BD8 BD7 BD6 BD5 BD4 BD3 BD2 BD1 BD0
B
A1/5 — B
R/W
PC_XCE1
PC_XCE2
PC_XIORD
PC_XIOWR
PC_XOE
PC_XWE
PC_RESET
PC_XREG
D
A3/5 — D
RST3
OUTCSYNC
OUTBLUE
OUTGREEN
OUTRED
CCD5C
CCD3C
SD3VC
CD5C
CD3C
CC RESET
CSYNCO
(1/10W)
R601 100
R603 100
R604 100
R605 10
R606 10
R607 10
GNDV
Q601 2SA1576
Q602 2SA1576
Q603 2SA1576
R609 300
R611 300
R613 300
R608 680
R610 680
R612 680
RGB5
C602 R1
C603 68/6R3
L601
RGB buff
EF603
EF602
EF601
IC601
TC7SH00FUS1
NAND
INB INA GND OUTY VCC
C604 R1
R6 10
AU8
RST3
LPF AMP
R315 47K (F)
C314 180P
C311 1
R313 100 (D)
IC308 NJM2068V (2/2)
R317 68K (F)
R318 6202 (F)
C317 470P
C305
R47
ADIR
ADINR
D301
C352 R001
C351 R001
L302
C303 R1
IC302
1A VCC
RST3
GCOL
Q304
1
2
3


A-a 4/5
A-b 4/5
A-a A-b
A1/5
ADC
DAC
CC RESET
LPF AMP
AU 4V
ATT
GUIDE SWITCH
ANALOG-SWITCH
IC301 M51957BFP
IC302 TC7WH08FU AND
IC303 NJM2068V
IC304 AK4351VT
IC305 AK5381VT
IC307 TC7S66F
IC308 NJM2068V
Q301 DTC114EU (RB=RBE=10K)
Q302 UMD3N (RB=RBE=10K)
Q303 UMD3N (RB=RBE=10K)
Q304 UMD3N (RB=RBE=10K)
Q305
Q307 IMD3A (RB=RBE=10K)
D301 UDZS5R1(B)
D302 HZU3R9(B2)
D303 1SS355
Set-Voltage 2.75V
fs=44.1kHz
384fs
fs=11.025kHz
(4.0V±0.2V)
ATT LEVEL CONTROL
PROGGAIN 0 1 2
ATT LEVEL
L L L 0dB MIN ATT
H H H MAX ATT
R/W
PC_XCE1
PC_XCE2
PC_XIORD
PC_XIOWR
PC_XOE
PC_XWE
PC_RESET
PC_XREG
PC_XUBUF
PC_XLBUF
PC_A0
PC_XCD1
PC_XCD2
PC_XVS1
PC_XVS2
PC_BVD1
PC_BVD2
PC_READY
PC_XWT
PC_WP
PC_XPWR
CDSW
RST3
DSP_HRDY
DSP_XHINT
DAC_MCLK
DAC_BCLK
DAC_LRCK
DAC_DATA
ADC_MCLK
ADC_BCLK
ADC_LRCK
ADC_DATA
ADC_GCNT0
ADC_GCNT1
ADC_GCNT2
CTOSYS3
SYSTOC
STAST1
STAST2
GUIDEON3
CPUWDT3
XCCSTBY3
XMS3RST
IRQPWR3
XRSTMS3
CCD5C
CCD3C
CCON
CCONB
RSTOUT
RSTOUT1
ADINR
ADIR
AU4V
AU5
AU8
GUIDE
DAC1_5V
ADC1_A5V
ADC1_D5V
GNDA
GNDD
GNDADD
GCOL

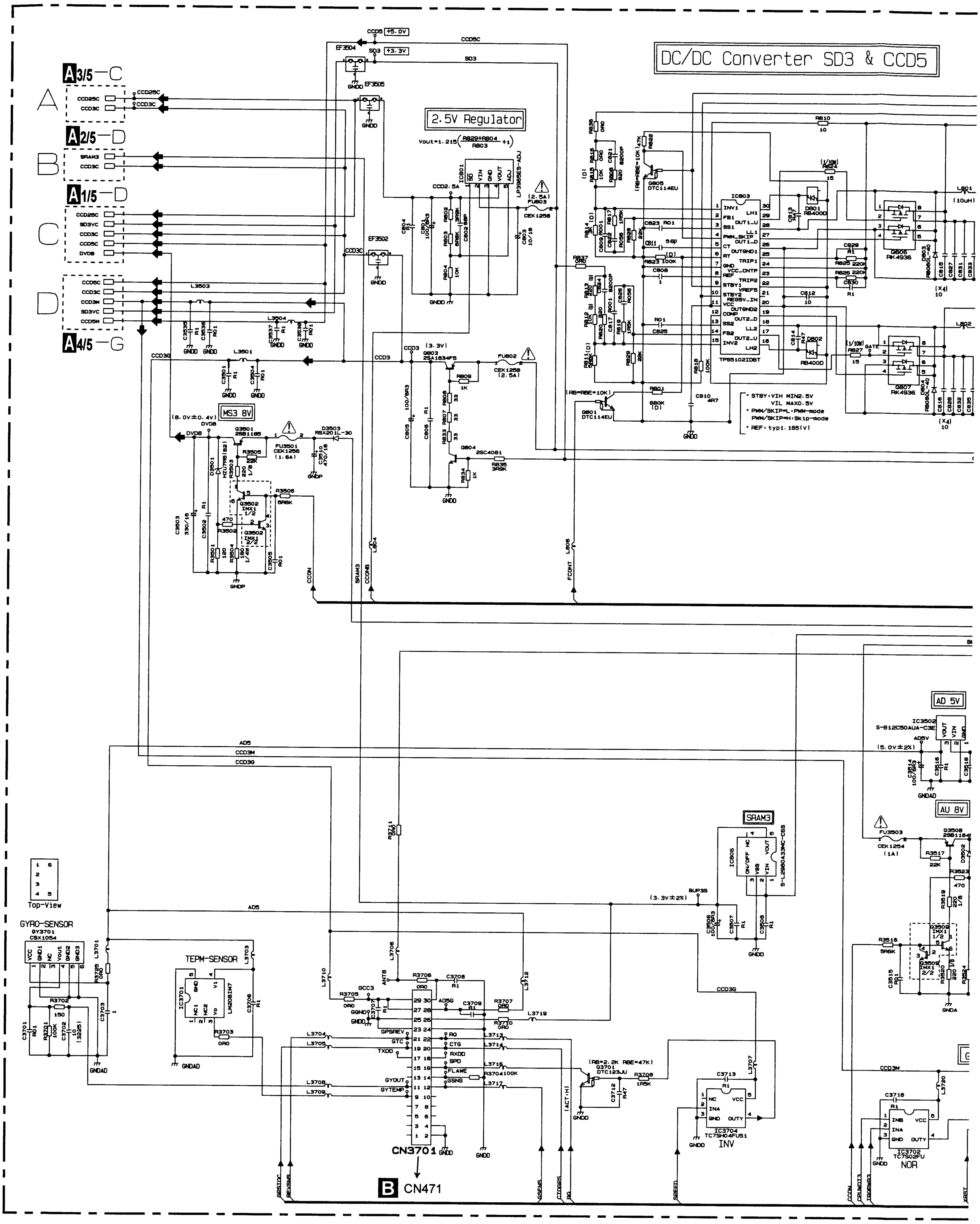
A 4/5 NAVI UNIT (AUDIO/MONITOR_IF)


A-a
A-b
AVIC-XD1057ZF/UC
N702
ot used
RGB buffer
L601
EF603
EF602
EF601
B
G
R
SNC
OUTB
OUTG
OUTR
CSYNCO
IC601
TC7SH00FUS1
NAND
INB
INA
GND
VCC
OUTY
L602
R614
100
C604
R1
GNDV
CCD5C
CCD3C
CCD5M
SD3VC
CCD3M
A5/5 — D
G
A5/5 — E
E
PWRFL
BUP_KEEP
GNDFL
GNDVI
(1/4W)
R602
47
TP601
(NM)
TP602
(NM)
GNDD
CEK1255
FU601
(1.25A)
C624
C625
C609
C608
100/16
L603
L605
L619
L606
A5/5 — F
F
VSW5
GNDILM
ILMOUT
ILMB
C710
R1
SYSTOM
MTOSYS
ILMOUT
INVPUL
CDEJKY
LOAD
WAKEUP
ROTIN0
ROTIN1
PNLADY
PNLADX
PNLXV
PNLYV
L607
L608
L609
L610
L611
L620
L612
L613
L614
L615
L616
L617
L618
PNDY
PNDX
PNXV
PNYV
GNDIL
L604
PWFL
PWVI
GNDFL
GNDVI
CN601
36 PWRFL
35 PWRFL
34 NC
33 PWRVI
32 PWRVI
31 NC
30 GNDFL
29 GNDFL
28 GNDVI
27 GNDVI
26 BLUE
25 GREEN
24 RED
23 CSYNC
22 GNDD
21 GNDD
20 SWAC5
19 SYSTOM
18 MTOSYS
17 ILMOUT
16 INVPUL
15 EJECT
14 LOAD
13 WAKEUP
12 ROTO
11 ROT1
10 PNLADY
9 PNLADX
8 PNLXV
7 PNLYV
6 NC
5 GNDILM
4 GNDILM
3 NC
2 PWRILM
1 PWRILM
E CN3001
AUB
CCONB
CCON
DRAMPW
SWACPW
XRST
SPEED
REVSNS
FCONT
FANCNT
L719
L720
IRQPWR
5→3
MS3RST
GCOL
R309
4R7K
(F)
R314
1R5K
(F)
R319
1K
(F)
C306
304
1
2
3
4
A
B
C
D
E
F


D CN1301
CN703
PNLYV
PNLADX
ROTIN1
WAKEUP
INV_PULSE
SYSTOM
PNLXV
PNLADY
ROTINO
LOAD
CDEJKY
MTOSYS
NC
SWACPWR
CCON
RSTOUT
XCCOFFOK
GUIDEON
FANCNT
IRQPWR
FCONT(DD CVT)
VDD
REVSENS
FANPWR
CTOSYS
SYSTOC
XRESET
DRAMPWR
SPEEDIN
BSENS
CPUWDT
GNDD
GUIDE
C729 R001
C708 R001
C712 R001
C716 R001
C718 R001
C728 R001
C730 R001
C734 R001
A5/5 — G
IC702 TC7SH08FUS1 AND
MS3RST
IC701 TC7SH08FUS1 AND
IRQPWR 5→3
IC703 TC74VHCT08AFTS1 4-AND
3→5
Q305 FMG12 (RB=10K)
Q306 DTC323TU (RB=10K)
Q307 (RB=RBE=10K)
IMD3A
R306 47K
R339 1K
R721 100K
C703
L727
L701
L719
L720
GCOL
R307 R311 R316 R321 1M R322 0R0
A-a A-b

3.7 NAVI UNIT(PS/GPS IF PART)(GUIDE PAGE)

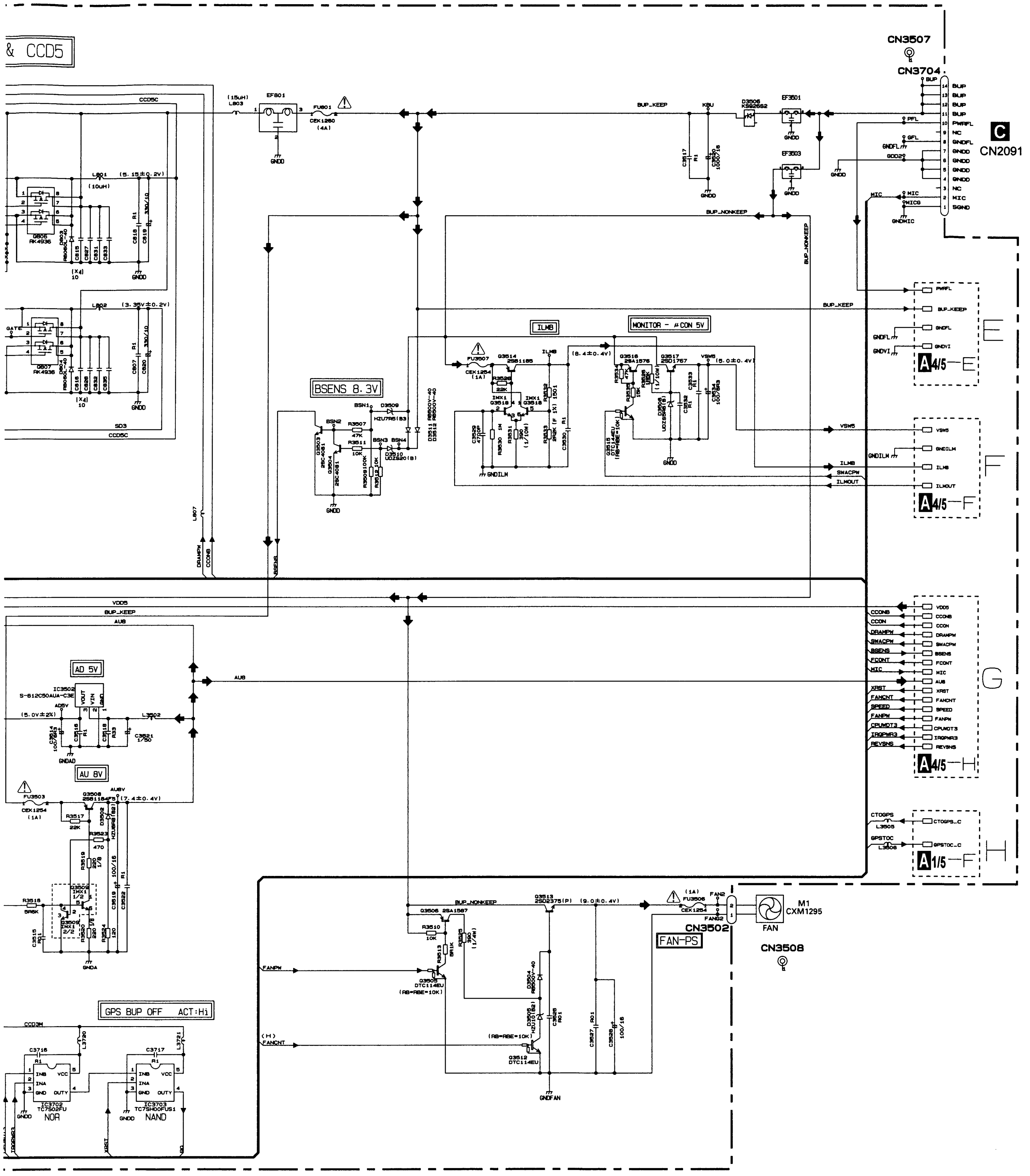
A-a 5/5


DC/DC Converter SD3 & CCD5
2.5V Regulator
Vout=1.215(R829+R804/R803+1)
A3/5—C
A2/5—D
A1/5—D
A4/5—G
A
B
C
D
CCD25C
CCD3C
SRAM3
SD3VC
CCD5C
DVD8
CCD3M
CCD5M
CCD5 +5.0V
SD3 +3.3V
EF3504
EF3505
EF3502
IC801 LP3965ES-ADJ
FU803 CEK1258 (2.5A)
FU802 CEK1258 (2.5A)
Q803 2SA1834F5
Q804 2SC4081
IC803 TPS5102IDBT
Q805 DTC114EU
Q801 DTC114EU
Q806 RK4936
Q807 RK4936
D801 RB400D
D802 RB400D
L801 (10uH)
* STBY:VIH MIN2.5V VIL MAX0.5V
* PWM/SKIP=L:PWM-mode PWM/SKIP=H:Skip-mode
* REF: typ1.185(V)
MS3 8V
(8.0V±0.4V)
Q3501 2SB1186
FU3501 CEK1256 (1.6A)
D3503 RSX201L-30
Q3502 IMX1
CCON
SRAM3
CCON8
FCONT
AD 5V
IC3502 S-812C50AUA-C3E
AD5V (5.0V±2%)
AU 8V
FU3503 CEK1254 (1A)
Q3508 2SB1184
SRAM3
IC806 S-L2980A33MC-C8S
BUP3S (3.3V±2%)
AD5
CCD3M
CCD3G
Top-View
GYRO-SENSOR GY3701 CSX1054
TEPM-SENSOR
IC3701 LM20BIM7
CN3701
B CN471
Q3701 DTC123JU (RB=2.2K RBE=47K)
IC3704 TC7SH04FUS1 INV
IC3702 TC7S02FU NOR
GPSREV
GTC
TXDO
GYOUT
GYTEMP
RQ
CTG
RXDO
SPD
FLAME
GSNS
(ACT:H)
GNDD
GNDAD
GNDP

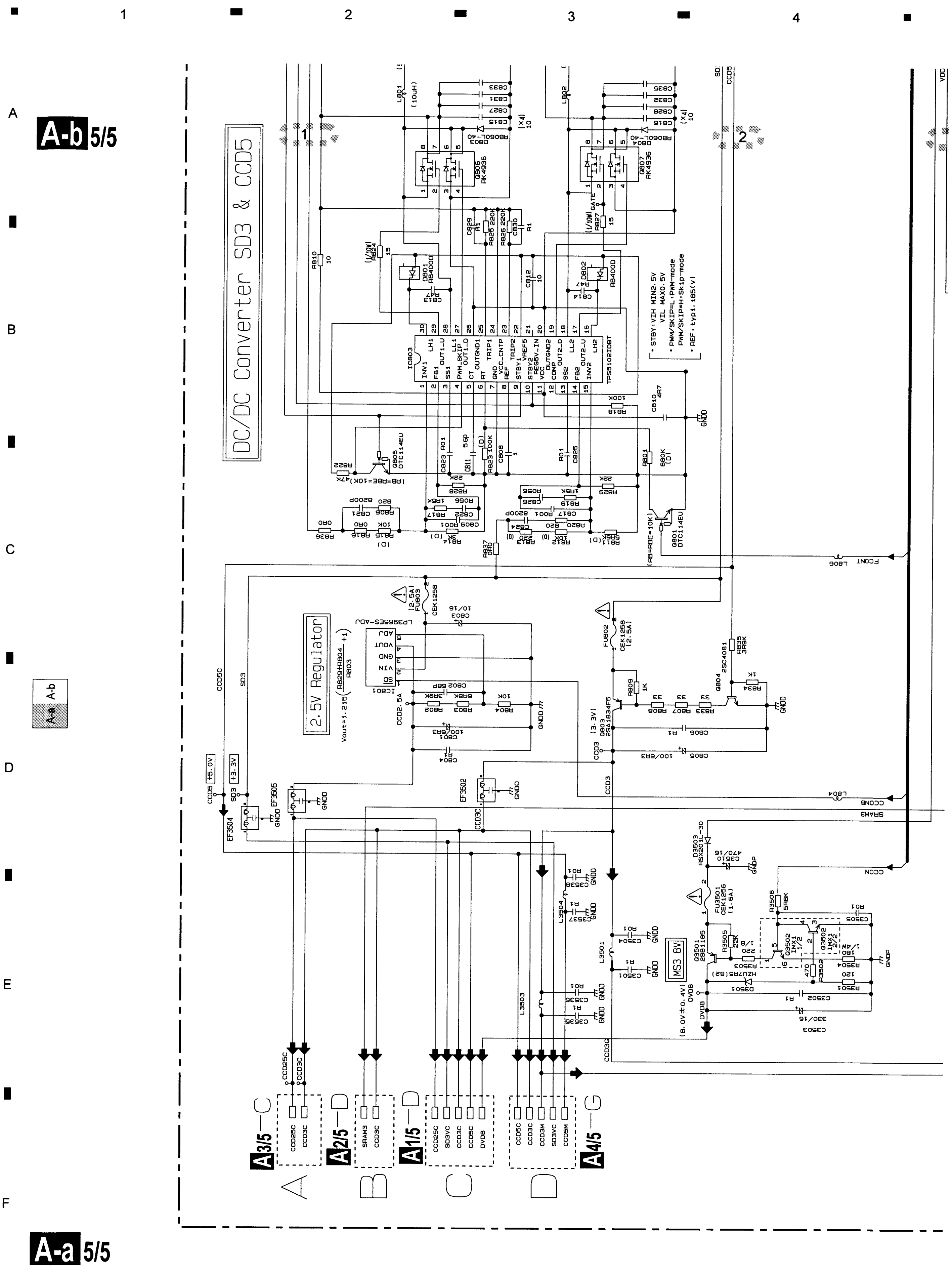
A5/5

A-b 5/5

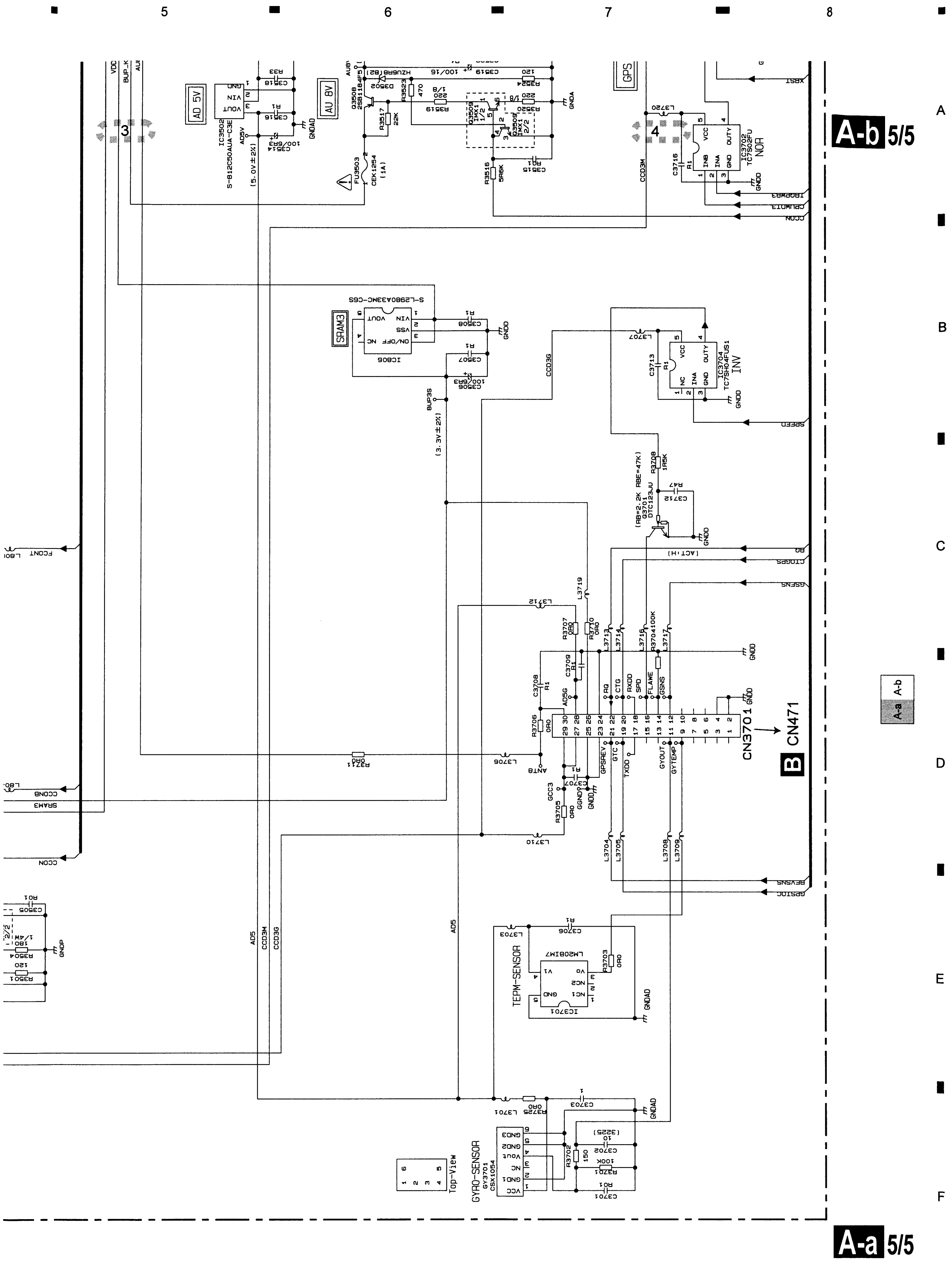
A5/5 NAVI UNIT (PS/GPS_IF)


& CCD5
CN3507
CN3704
CN2091
C
EF801
FU801
CEK1260
(4A)
L803
(15uH)
GNDD
BUP_KEEP
KBU
D3506
KSB2662
EF3501
EF3503
C3517
C3520
1000/16
BUP
PWRFL
NC
GNDFL
GNDD
MIC
SGND
GFL
GND2
MICG
GNDMIC
BUP_NONKEEP
L801
(10uH)
(5.15±0.2V)
Q806
RK4936
C818
C819
330/10
(X4)
10
L802
(3.35V±0.2V)
GATE
Q807
RK4936
C807
C820
SD3
CCD5C
ILMB
MONITOR - µCON 5V
BSENS 8.3V
FU3507
CEK1254
(1A)
Q3514
2SB1185
Q3518
IMX1
R3526
22K
R3532
R3533
R3531
R3530
C3529
C3530
Q3516
2SA1576
Q3517
2SD1767
(8.4±0.4V)
(8.0±0.4V)
VSW5
R3534
47K
R3535
D3508
UDZS5R6(B)
C3532
C3533
C3534
100/6R3
Q3515
DTC114EU
(RB=RBE=10K)
GNDILM
BSN1
BSN2
BSN3
BSN4
D3509
HZU7R5(B3)
D3511
D3512
RB500V-40
Q3503
2SC4081
Q3504
R3507
47K
R3511
10K
R3509
100K
R3512
10K
D3510
UDZS20(B)
L807
DRAMPW
CCONB
BSENS
VDD5
AUB
AD 5V
IC3502
S-812C50AUA-C3E
AD5V
(5.0V±2%)
C3514
C3516
C3518
C3521
L3502
GNDAD
AU 8V
FU3503
CEK1254
(1A)
Q3508
2SB1184F5
AU8V
(7.4±0.4V)
R3517
22K
R3523
470
D3502
HZU8R8(B2)
R3519
C3519
100/16
C3522
R3516
5R6K
Q3509
IMX1
C3515
R3520
R3524
GNDA
GPS BUP OFF ACT:Hi
CCD3M
C3716
C3717
L3720
L3721
IC3702
TC7S02FU
NOR
IC3703
TC7SH00FUS1
NAND
GNDD
XRST
FANPW
FANCNT
(H)
Q3506
2SA1587
R3510
10K
R3513
R3525
Q3505
DTC114EU
(RB=RBE=10K)
Q3513
2SD2375(P)
(9.0±0.4V)
D3504
RB500V-40
D3505
HZU10(B2)
C3525
C3527
C3528
100/16
Q3512
DTC114EU
GNDFAN
FU3506
CEK1254
(1A)
FAN2
FANG2
CN3502
FAN-PS
M1
CXM1295
FAN
CN3508
A4/5—E
E
GNDVI
A4/5—F
F
VSW5
ILMB
SWACPW
ILMOUT
A4/5—H
G
CCON
BSENS
FCONT
MIC
SPEED
CPUMDT3
IRQPWR3
REVSNS
A1/5—F
H
CTOGPS
L3505
CTOGPS_C
GPSTOC
L3506
GPSTOC_C

A5/5

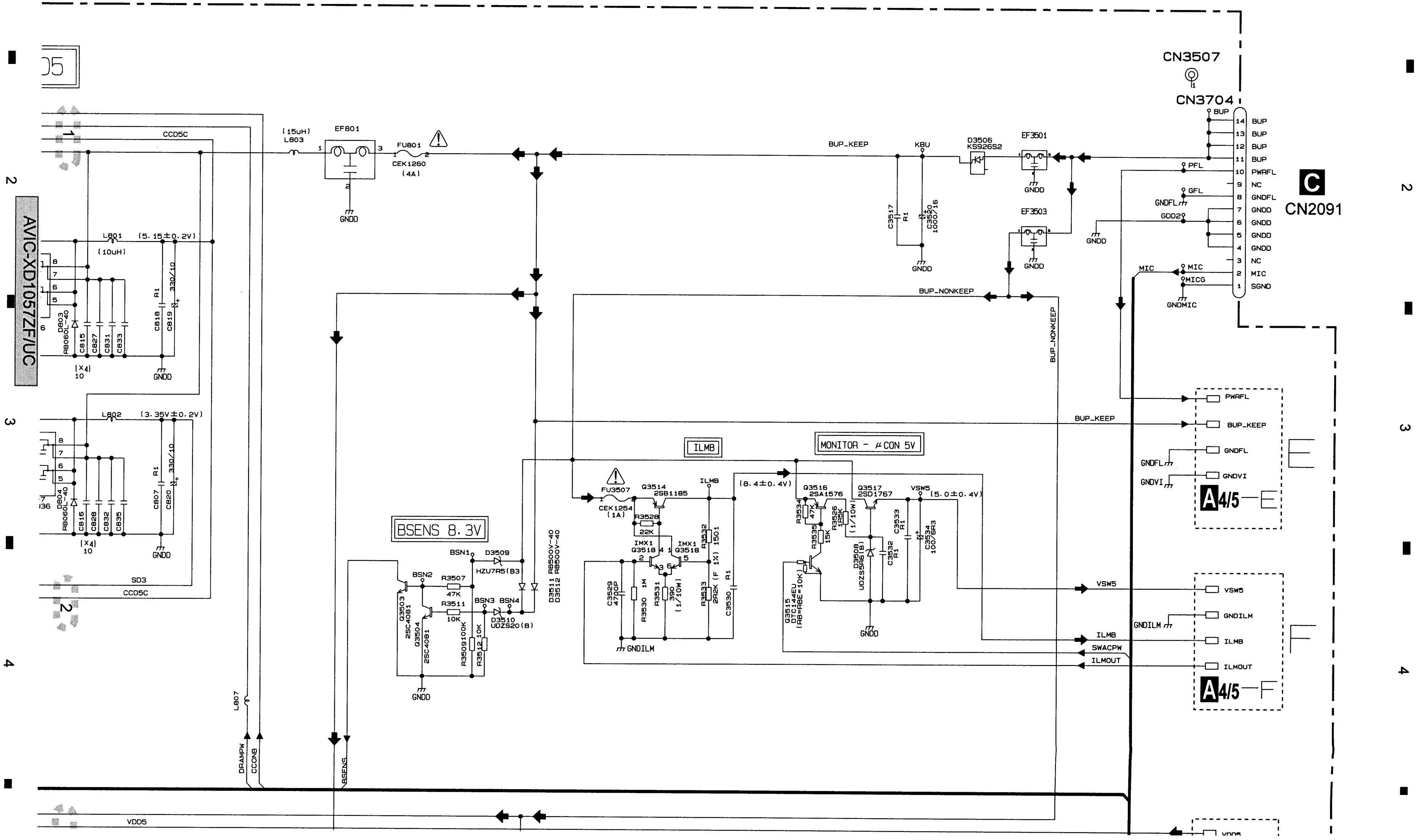

A-b 5/5
A-a 5/5
A-a
A-b
DC/DC Converter SD3 & CCD5
2.5V Regulator
Vout=1.215(R829+R804/R803 +1)
IC801
LP3965ES-ADJ
SD
VIN
GND
VOUT
ADJ
IC803
TPS5102IDBT
INV1
FB1
SS1
PWM_SKIP
CT
RT
GND
REF
STBY1
STBY2
VCC
COMP
SS2
FB2
INV2
LH1
OUT1_U
LL1
OUT1_D
OUTGND1
TRIP1
VCC_CNTP
TRIP2
VREF5
REG5V_IN
OUTGND2
OUT2_D
LL2
OUT2_U
LH2
• STBY:VIH MIN2.5V
VIL MAX0.5V
• PWM/SKIP=L:PWM-mode
PWM/SKIP=H:Skip-mode
• REF:typ1.185(V)
Q806
RK4936
Q807
RK4936
D803
RB060L-40
D804
RB060L-40
D801
RB400D
D802
RB400D
Q805
DTC114EU
Q801
DTC114EU
(RB=RBE=10K)
Q803
2SA1834F5
Q804
2SC4081
Q3501
2SB1185
Q3502
IMX1
D3501
HZU7R5(B2)
D3503
RSX201L-30
FU3501
CEK1256
(1.6A)
FU802
CEK1258
(2.5A)
FU803
CEK1258
(2.5A)
MS3 8V
(8.0V±0.4V)
(3.3V)
CCD2.5A
L801
(10uH)
L802
L804
L806
L3501
L3503
L3504
EF3502
EF3504
EF3505
CCD5
+5.0V
SD3
+3.3V
CCD5C
CCD3
CCD3C
CCD3G
CCD25C
CCD5M
CCD3M
SD3VC
SRAM3
DVD8
CCON
CCON8
FCONT
GNDD
GNDP
VDD
A3/5 — C
A2/5 — D
A1/5 — D
A4/5 — G
A
B
C
D
E
F
1
2
3
4

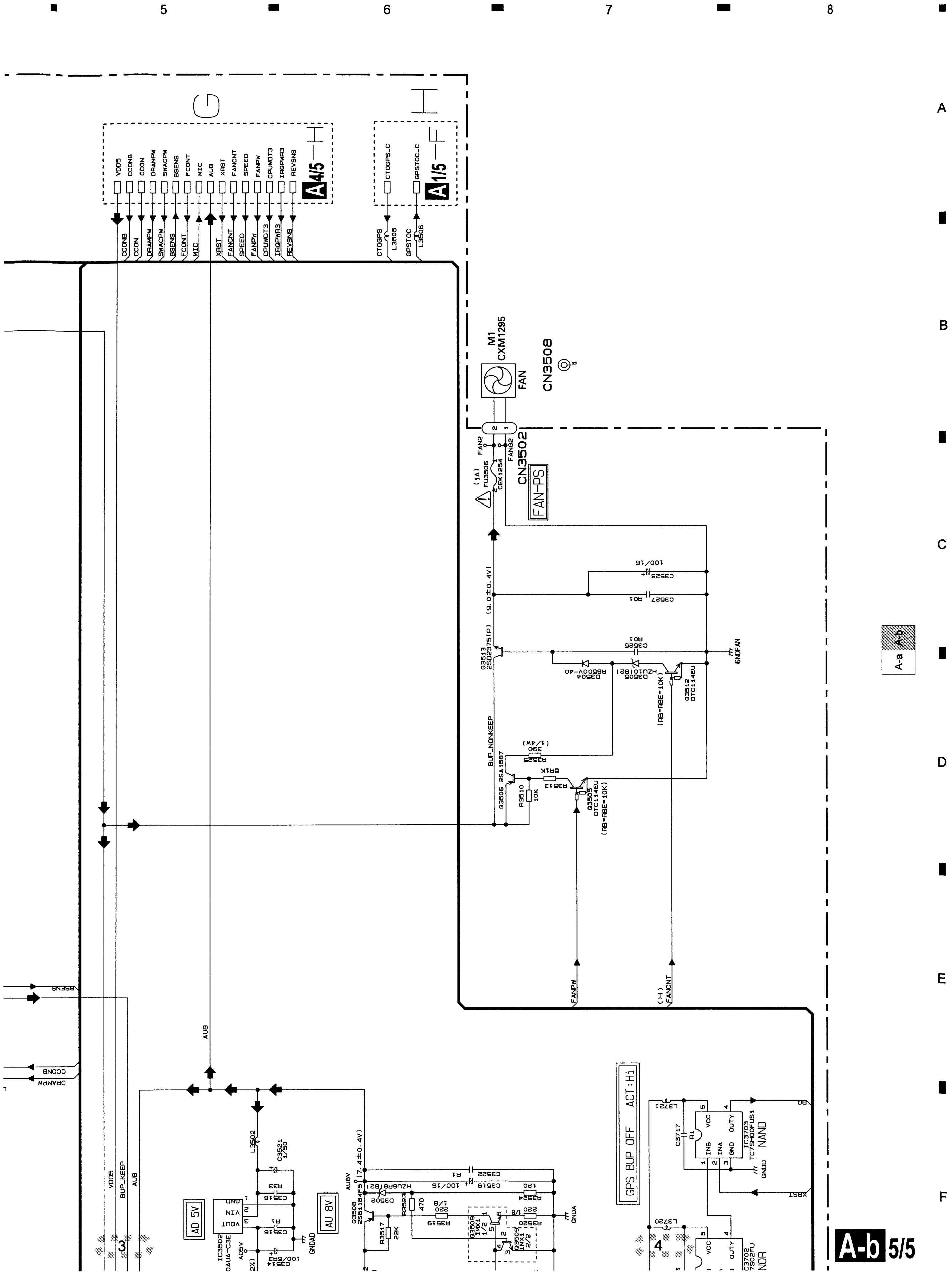
AVIC-XD1057ZF/UC


A-b 5/5
A-a 5/5
CN3701
B CN471
GYRO-SENSOR
GY3701
CSX1054
VCC
GND1
NC
Vout
GND2
GND3
Top-View
C3701 R01
R3701 100K
R3702 150
C3702 10 (3225)
C3703 1
R3725 0R0
L3701
GNDAD
TEPM-SENSOR
IC3701
LM20BIM7
NC1
NC2
Vo
V1
GND
R3703 0R0
C3706 R1
L3703
GYTEMP
GYOUT
TXDD
GTC
GPSREV
ANT8
AD5G
GSNS
FLAME
SPD
RXDD
CTG
RQ
GNDD
GCC3
R3705 0R0
C3707 R1
C3708 R1
C3709 R1
R3706 0R0
R3707 0R0
R3710 0R0
R3704 100K
R3711 0R0
L3704
L3705
L3706
L3708
L3709
L3710
L3712
L3713
L3714
L3716
L3717
L3719
GPSTOC
REVSNS
GSENS
CTOGPS
RQ
(ACT:H)
Q3701
DTC123JU
(RB=2.2K RBE=47K)
C3712 R47
R3708 1R5K
SPEED
IC3704
TC7SH04FUS1
INV
NC
INA
GND
OUTY
VCC
C3713 R1
L3707
CCD3G
CCD3M
AD5
(3.3V±2%)
BUP3S
C3506 100/6R3
C3507 R1
C3508 R1
IC806
S-L2980A33MC-C6S
ON/OFF
VSS
VIN
VOUT
SRAM3
CCON
CPUWDT3
TRQPWR3
XRST
IC3702
TC7S02FU
NOR
INB
C3716 R1
L3720
GPS
3
4
Q3509 1MX1 1/2
Q3509 1MX1 2/2
R3516 5R6K
C3515 R01
R3520 220 1/8
R3524 120
R3519 220 1/8
R3523 470
C3519 100/16
GNDA
Q3508 2SB1184F5
D3502 HZU6R8(B2)
R3517 22K
FU3503 CEK1254 (1A)
AU 8V
IC3502
S-812C50AUA-C3E
(5.0V±2%)
AD5V
C3514 100/6R3
C3516 R1
C3518 R33
VOUT
VIN
GND
AD 5V
VDC
BUP_K
FCONT
L801
CCONB
SRAM3
R3501 120
R3504 180 1/4W
C3505 R01
GNOP
A
B
C
D
E
F
5
6
7
8
A-b
A-a

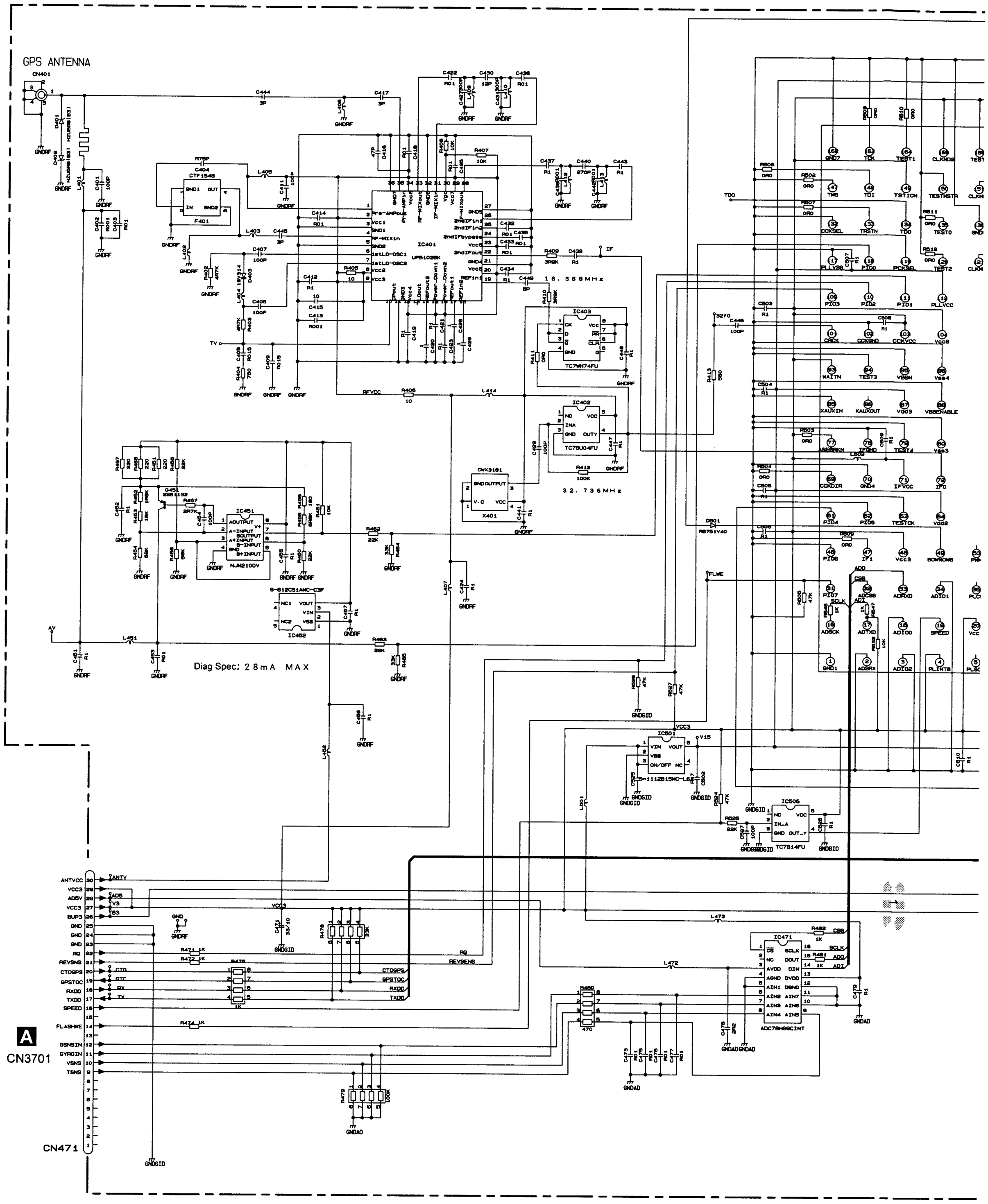
AVIC-XD1057ZF/UC

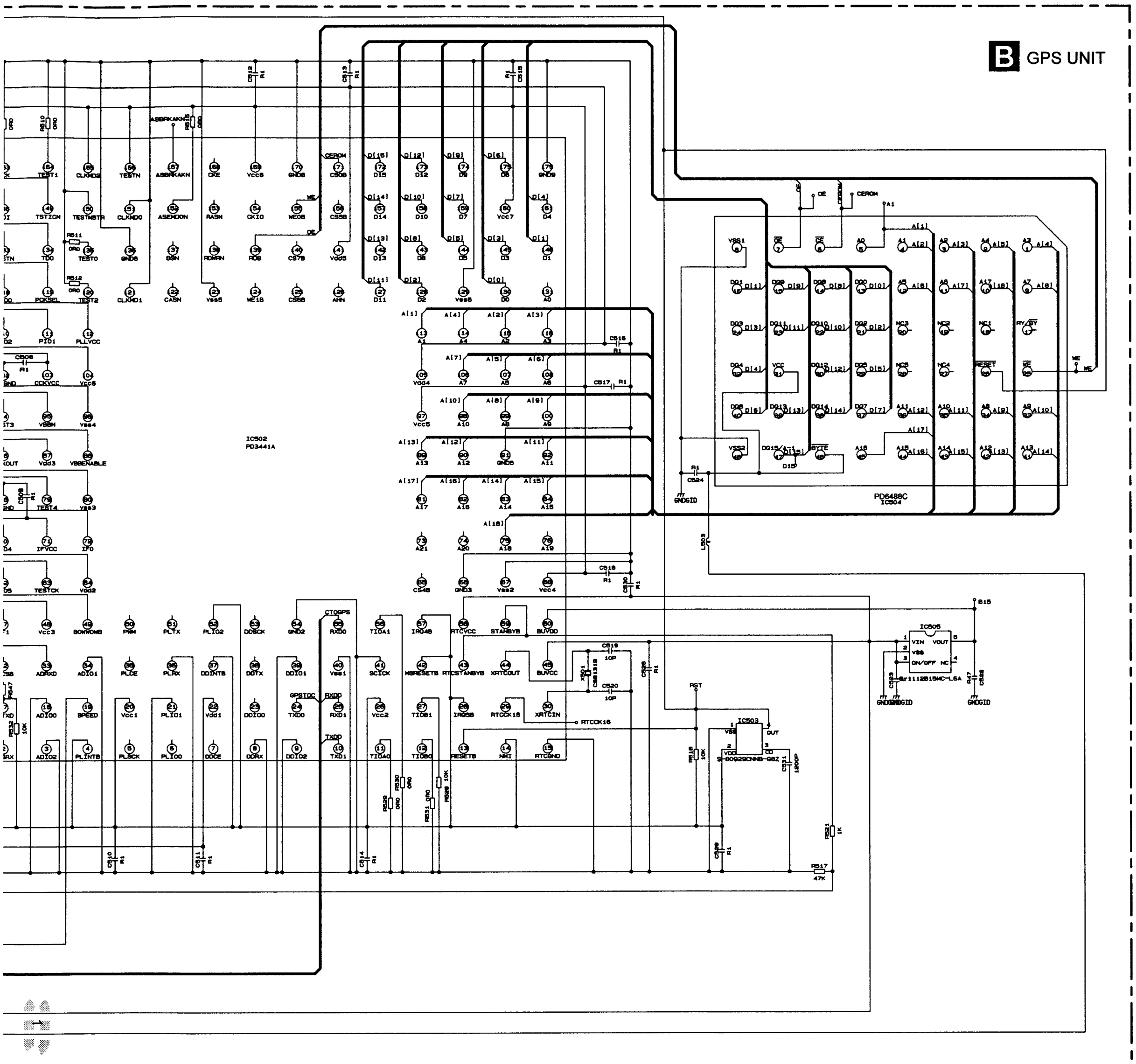
A5/5 NAVI UNIT (PS/GPS_IF)

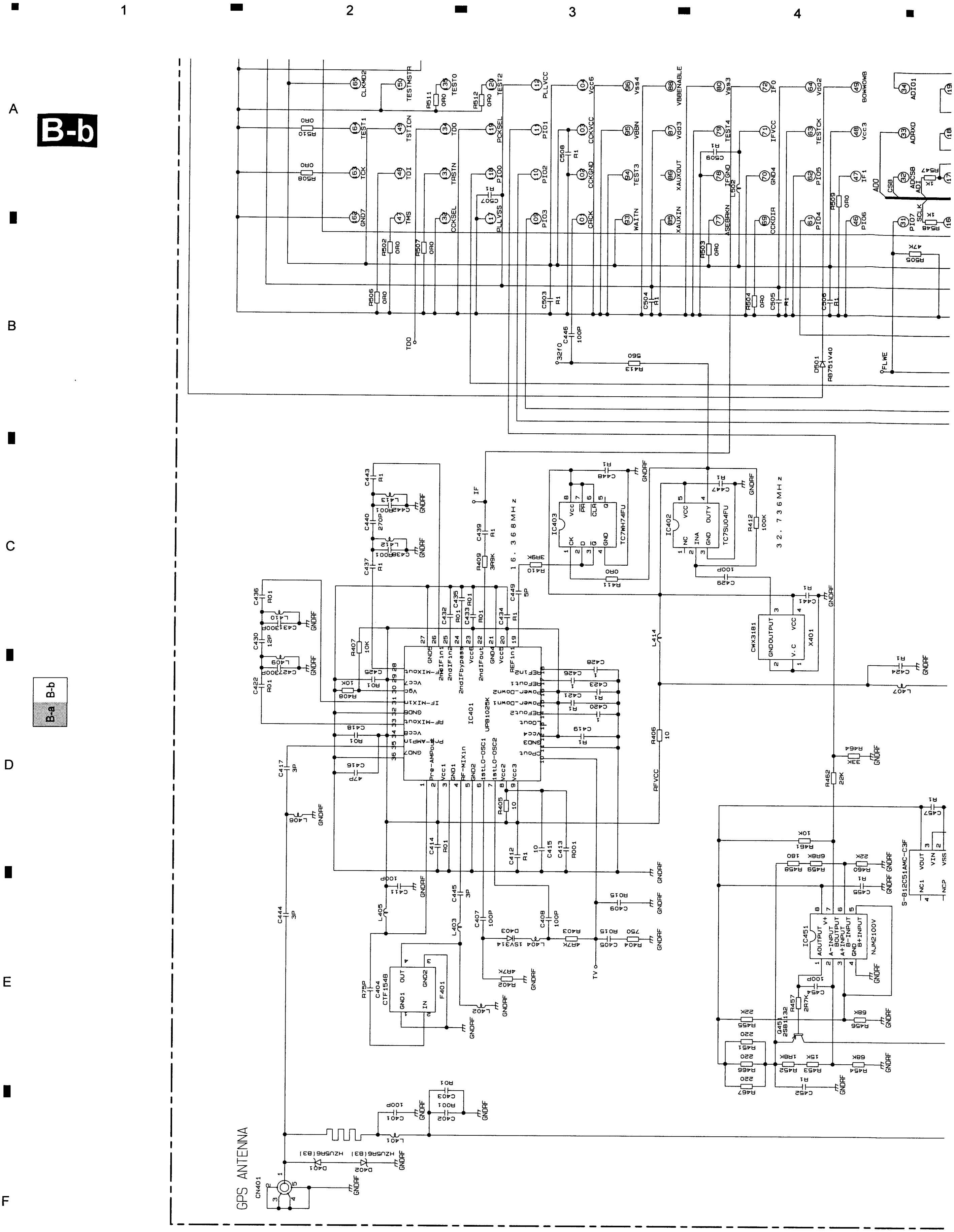

AVIC-XD1057ZF/UC
CN3507
CN3704
C CN2091
BUP
PFL
GFL
GNDFL
GDD2
MIC
MICG
GNDMIC
14 BUP
13 BUP
12 BUP
11 BUP
10 PWRFL
9 NC
8 GNDFL
7 GNDD
6 GNDD
5 GNDD
4 GNDD
3 NC
2 MIC
1 SGND
CCD5C
SD3
L803 (15uH)
EF801
FU801 CEK1260 (4A)
GNDD
BUP_KEEP
KBU
D3506 KS926S2
EF3501
EF3503
C3517 R1
C3520 1000/16
BUP_NONKEEP
L801 (10uH) (5.15±0.2V)
D803 RB060L-40
C815 C827 C831 C833
(X4) 10
C818 R1
C819 330/10
L802 (3.35V±0.2V)
D804 RB060L-40
C816 C828 C832 C835
C807 R1
C820 330/10
BSENS 8.3V
BSN1 BSN2 BSN3 BSN4
D3509 HZU7R5(B3)
Q3503 2SC4081
Q3504 2SC4081
R3507 47K
R3511 10K
R3509 100K
R3512 10K
D3510 UDZS20(B)
D3511 RB500V-40
D3512 RB500V-40
ILMB
FU3507 CEK1254 (1A)
Q3514 2SB1185
R3528 22K
IMX1 Q3518
C3529 4700P
R3530 1M
R3531 390 (1/10W)
R3533 2R2K (F 1%)
R3532 1501
C3530 R1
GNDILM
MONITOR - μCON 5V
(8.4±0.4V)
Q3516 2SA1576
Q3517 2SD1767
R3534 47K
R3535 15K
R3526 1R5K (1/10W)
Q3515 DTC144EU (RB=RBE=10K)
D3508 UDZS5R6(B)
C3532 R1
C3533 R1
C3534 100/6R3
VSW5 (5.0±0.4V)
PWRFL
BUP_KEEP
GNDFL
GNDVI
A4/5-E
VSW5
GNDILM
ILMB
SWACPW
ILMOUT
A4/5-F
L807
DRAMPW
CCONB
BSENS
VDD5


A-b 5/5
A-a
A-b
5
6
7
8
A
B
C
D
E
F
G
H
A4/5—H
A1/5—F
VDD5
CCONB
CCON
DRAMPW
SWACPW
BSENS
FCONT
MIC
AUB
XRST
FANCNT
SPEED
FANPW
CPUWDT3
IRQPWR3
REVSNS
CTOGPS_C
GPSTOC_C
CTOGPS
L3505
GPSTOC
L3506
M1
CXM1295
FAN
CN3508
CN3502
FAN-PS
FAN2
FANG2
FU3506
CEK1254
(1A)
(9.0±0.4V)
C3528
100/16
C3527 R01
C3525
R01
Q3513
2SD2375(P)
D3504
RB500V-40
D3505
HZU10(B2)
Q3512
DTC114EU
(RB=RBE=10K)
GNDFAN
BUP_NONKEEP
R3525
390
(1/4W)
Q3506 2SA1587
R3510
10K
R3513
5R1K
Q3505
DTC114EU
(RB=RBE=10K)
FANPW
(H)
FANCNT
BSENS
CCONB
DRAMPW
AUB
VDD5
BUP_KEEP
L3502
C3521
1/50
IC3502
OAUA-C3E
AD5V
2%
C3514
100/6R3
GNDAD
AD 5V
VOUT
VIN
GND
C3516
R1
C3518
R33
AU 8V
AUBV
(7.4±0.4V)
C3522 R1
C3519 100/16
D3502
HZU6R8(B2)
Q3508
2SB1184F5
R3517
22K
R3523
470
R3519
220
1/8
Q3509
IMX1
1/2
2/2
R3520
220 1/8
R3524
120
GNDA
GPS BUP OFF ACT:Hi
L3721
L3720
C3717
R1
IC3703
TC7SH00FUS1
NAND
IC3702
7S02FU
NOR
INB
INA
GND
VCC
OUTY
GNDD
XRST
BO
3
4

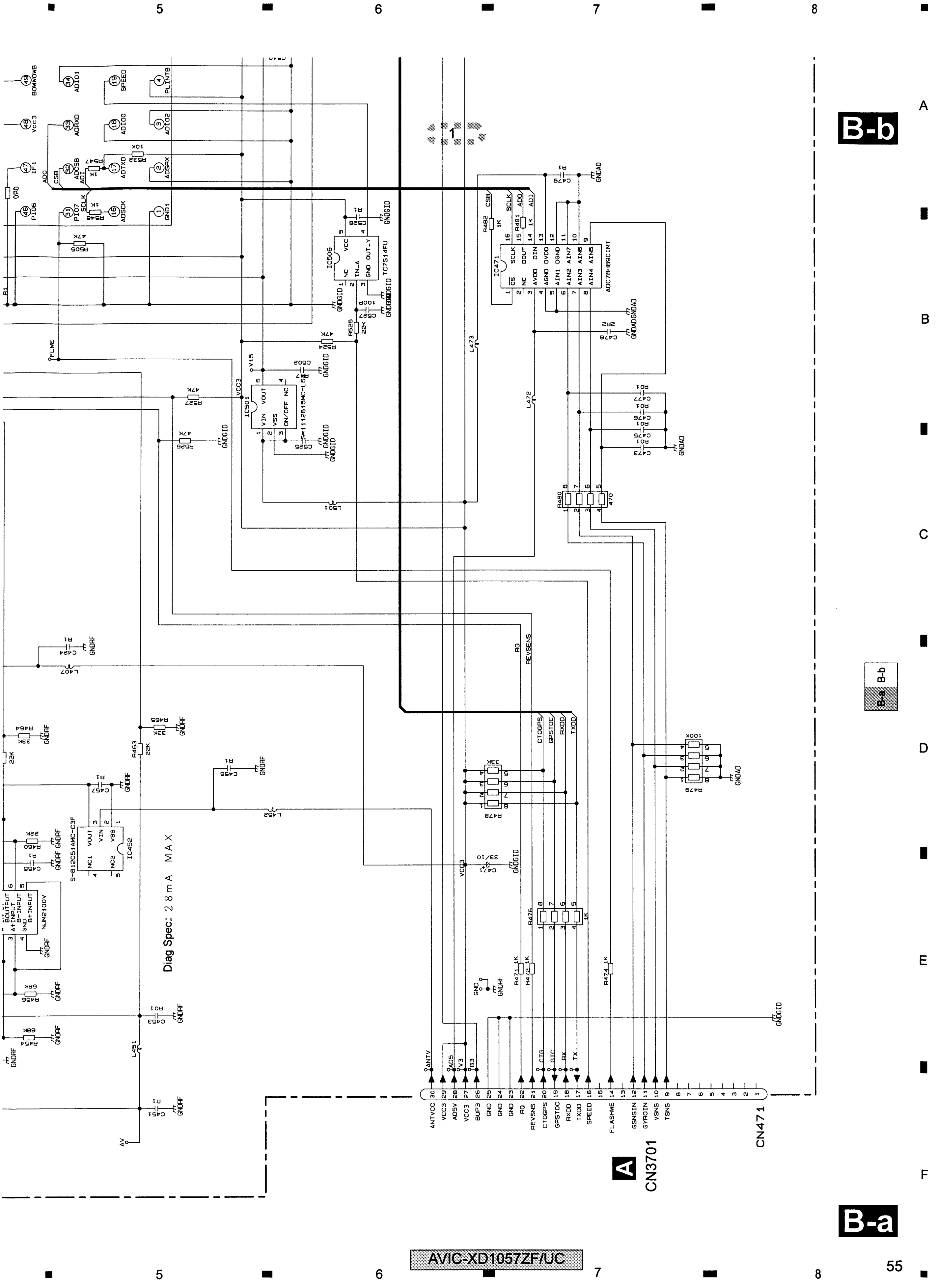
3.8 GPS UNIT(GUIDE PAGE)

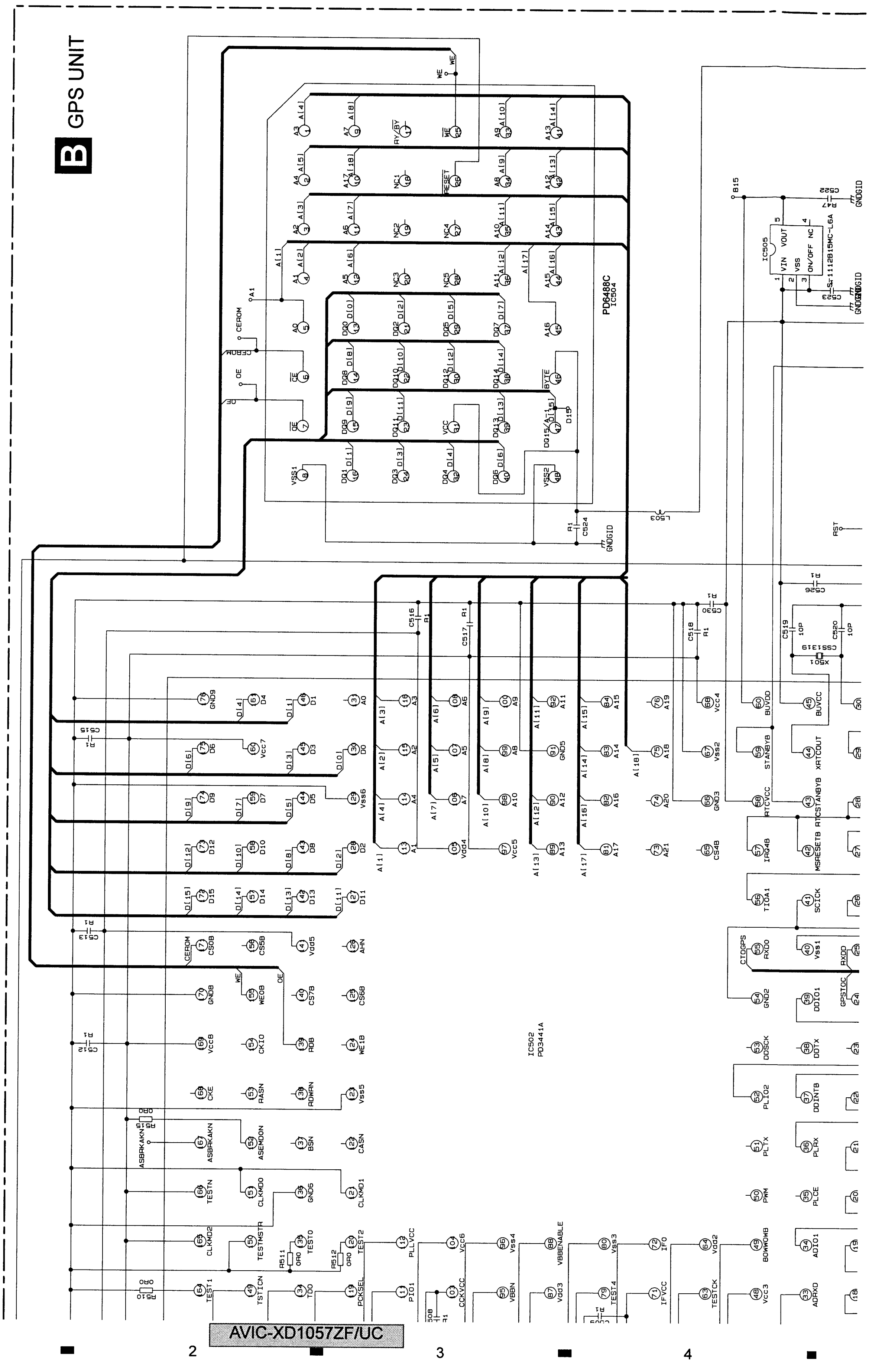

GPS ANTENNA
CN401
IC401
UPB1025K
F401
CTF1548
IC403
TC7WH74FU
IC402
TC7SU04FU
CMX3181
X401
16. 368MHz
32. 768MHz
IC451
NJM2100V
Q451
2SB1132
IC452
S-812C51AMC-C3F
Diag Spec: 28mA MAX
IC501
S-1112B15MC-L6
IC505
TC7S14FU
IC471
ADC78H89CIMT
R476
R478
R479
R480
CN3701
CN471
A
B
ANTVCC
VCC3
ADSV
VCC3
BUP3
GND
GND
GND
RG
REVSNS
CTOGPS
GPSTOC
RXDD
TXDD
SPEED
FLASHME
GSNSIN
GYROIN
VSNS
TSNS
TDO
TV
AV
IF
FLME
RFVCC
GNDRF
GNDGID
GNDAD


B GPS UNIT
IC502
PD3441A
IC504
PD6488C
IC503
S-80929CNNB-G8Z
IC505
S-1112B15MC-L6A
VIN
VOUT
VSS
ON/OFF
NC
OUT
VDD
CD
B15
RST
GNDGID
L503
R518 10K
R521 1K
R517 47K
C531 1200P
C528 R1
C526 R1
C522
C523
R47
C524 R1
C516 R1
C517 R1
C518 R1
C519 10P
C520 10P
X501
C512 R1
C513 R1
C515 R1
C510 R1
C511 R1
C514 R1
R510 0R0
R511 0R0
R512 0R0
R513 0R0
R528 10K
R530 0R0
R531 0R0
R532 10K
CERON
OE
WE
A1
RTCCK16
RXDD
TXDD
GPSTOC
CTOGPS
ASBRKAKN
VSS1
VSS2
VCC
BYTE
D15
RY/BY
RESET
NC1
NC2
NC3
NC4
NC5
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
D0
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
DQ0
DQ1
DQ2
DQ3
DQ4
DQ5
DQ6
DQ7
DQ8
DQ9
DQ10
DQ11
DQ12
DQ13
DQ14
DQ15/A-1
TEST1
TEST2
TESTN
TSTICH
TESTMSTR
CLKHD0
CLKHD1
CLKHD2
ASBRKAKN
ASEMDON
CKE
CKIO
RASN
CASN
RDWRN
RD8
BSN
WE0B
WE1B
CS5B
CS6B
CS7B
CS8B
AHN
Vcc7
Vcc8
Vss5
Vss6
Vdd5
GND6
GND8
GND9
PCKSEL
PIO1
PLLVCC
CCKVCC
VCC6
VBBN
Vss4
Vdd3
VBBENABLE
TEST4
Vss3
IFVCC
IF0
TESTCK
Vdd2
VCC3
BOWNOMB
PWM
PLTX
PLIO2
DDSCK
GND2
RXD0
TIOA1
IRQ4B
RTCVCC
STANBYB
BUVDD
ADRXD
ADIO1
PLCE
PLRX
DDINTB
DDTX
DDIO1
Vss1
SCICK
MSRESETB
RTCSTANBYB
XRTCOUT
BUVCC
ADIO0
SPEED
VCC1
PLIO1
Vdd1
DDIO0
TXD0
RXD1
VCC2
TIOB1
IRQ3B
RTCCK16
XRTCIN
ADIO2
PLINTB
PLSCK
PLIO0
DDCE
DDRX
DDIO2
TXD1
TIOA0
TIOB0
RESETB
NMI
RTCGND
Vdd4
VCC5
GND5
GND3
Vss2
VCC4
CS4B
TDO
TESTO
TSTN


1
2
3
4
A
B
C
D
E
F
B-b
B-a
B-a B-b
GPS ANTENNA
CN401
D401 HZU5R6(B3)
D402 HZU5R6(B3)
L401
C401 100P
C402 R001
C403 R01
F401 CTF1548
C404 R75P
IC401 UPB1025K
IC402 TC7SU04FU
IC403 TC7WH74FU
X401 CWX3181
32.736MHz
16.368MHz
IF
TV
RFVCC
IC451 NJM2100V
Q451 2SB1132
S-812C51AMC-C3F
R413 560
C446 100P
32fO
TDO
D501 RB751V40
FLWE
CLKMD2
TESTMSTR
TEST0
TEST2
PLLVCC
VCC6
VSS4
VBBENABLE
VSS3
IFO
VDD2
BOWMOWB
ADIO1
TEST1
TSTICN
TDO
PCKSEL
PIO1
CCKVCC
VBBN
VDD3
TEST4
IFVCC
TESTCK
VCC3
ADRXD
TCK
TDI
TRSTN
PIO0
PIO2
CCKGND
TEST3
XAUXOUT
IFGND
GND4
PIO5
IF1
ADCSB
GND7
TMS
CCKSEL
PLLVSS
PIO3
CRCK
WAITN
XAUXIN
ASEBRKN
CCKOIR
PIO4
PIO6
PIO7
SCLK
CSB
ADI
ADO

AVIC-XD1057ZF/UC

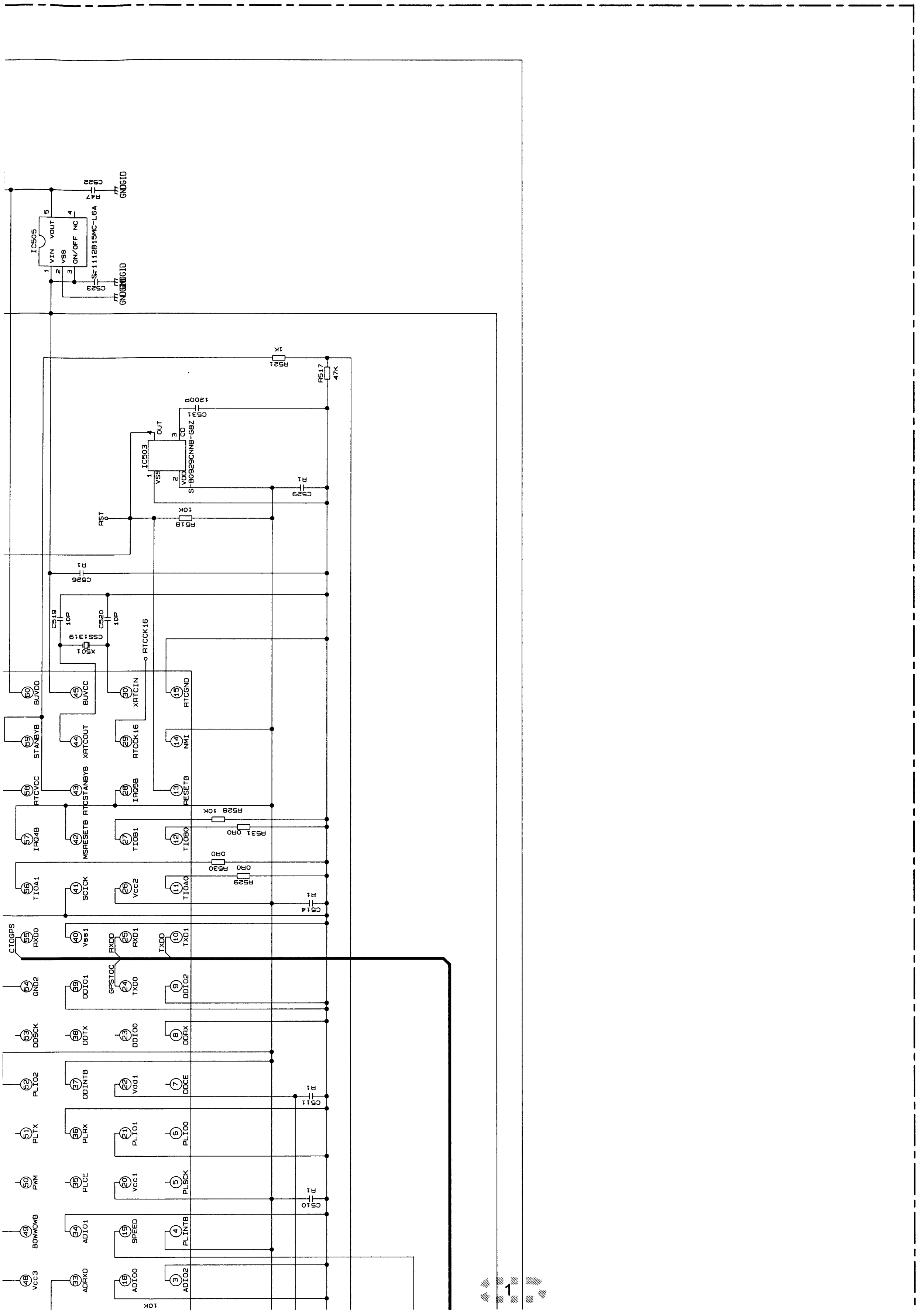

B-a
B-b
A
CN3701
CN471
ANTVCC
VCC3
AD5V
BUP3
GND
RQ
REVSNS
CTOGPS
GPSTOC
RXDD
TXDD
SPEED
FLASHWE
GSNSIN
GYROIN
VSNS
TSNS
ANTV
AD5
V3
B3
CTG
GTC
RX
TX
GNDGID
GNDAD
GNDRF
R471 1K
R472 1K
R474 1K
R476 1K
R478 33K
R479 100K
R480 470
C471 33/10
REVSENS
IC471
ADC78H89CIMT
CS SCLK NC DOUT AVDD DIN AGND DVDD AIN1 DGND AIN2 AIN7 AIN3 AIN6 AIN4 AIN5
R481 1K
R482 1K
CSB SCLK ADO ADI
C473 R01
C475 R01
C476 R01
C477 R01
C478 2R2
C479 R1
L472
L473
L501
IC501
S-1112B15MC-L6
VIN VOUT VSS ON/OFF NC
C525
C502
R526 47K
R527 47K
V15
R524 47K
R525 22K
C527 100P
IC506
TC7S14FU
NC IN_A GND OUT_Y VCC
C528 R1
R505 47K
R548 1K
R547 1K
R532 10K
GND1
ADSCK
PIO7
PIO6
ADSRX
ADTXD
ADCSB
IF1
ADIO2
ADIO0
ADRXD
VCC3
PLINTB
SPEED
ADIO1
BOWWOWB
OR0
FLWE
L407
C424 R1
R463 22K
R464 33K
R465 33K
22K
L452
C456 R1
IC452
S-812C51AMC-C3F
NC1 VOUT VIN NC2 VSS
C457 R1
C455 R1
R460 22K
NJM2100V
A+OUTPUT A+INPUT B-INPUT GND B+INPUT
R454 68K
R456 68K
L451
C451 R1
C453 R01
AV
Diag Spec: 28mA MAX
A
B
C
D
E
F
5
6
7
8


B GPS UNIT
IC502
PD3441A
IC504
PD6488C
IC505
S-1112B15MC-L6A
VIN
VOUT
VSS
ON/OFF
NC
X501
CSS1319
C519 10P
C520 10P
C516 R1
C517 R1
C518 R1
C530 R1
C526 R1
C524 R1
C512 R1
C513 R1
C515 R1
C522
C523
R47
R510 0R0
R511 0R0
R512 0R0
R515 0R0
L503
GNDGID
B15
RST
CEROM
OE
WE
A1
ASBRKAKN
TEST1
TSTICN
TDO
PCKSEL
PIO1
CCKVCC
VBBN
VDD3
TEST4
IFVCC
TESTCK
VCC3
ADRXD
CLKMD2
TESTMSTR
TEST0
TEST2
PLLVCC
VCC6
VSS4
VBBENABLE
VSS3
IFO
VDD2
BOWWOWB
ADIO1
TESTN
CLKMD0
GND6
CLKMD1
ASEMDON
BSN
CASN
CKE
RASN
RDWRN
VSS5
VCCB
CKIO
RDB
WE1B
GNDB
WE0B
CS7B
CS6B
CS0B
CS5B
VDD5
AHN
D15
D14
D13
D11
D12
D10
D8
D2
D9
D7
D5
VSS6
D6
VCC7
D3
D0
GND9
D4
D1
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
A18
A19
A20
A21
VDD4
VCC5
GND5
CS4B
GND3
VSS2
VCC4
IRQ4B
RTCVCC
STANBYB
BUVDD
TIOA1
GND2
RXD0
CTDGPS
DDSCK
PLIO2
PLTX
PWM
MSRESETB
RTCSTANBYB
XRTCOUT
BUVCC
SCICK
VSS1
RXDD
GPSTOC
DDIO1
DDTX
DDINTB
PLRX
PLCE
VSS1
DQ1
DQ3
DQ4
DQ6
VSS2
DQ9
DQ11
VCC
DQ13
DQ15/A-1
D15
DQ8
DQ10
DQ12
DQ14
BYTE
DQ0
DQ2
DQ5
DQ7
NC1
NC2
NC3
NC4
NC5
RESET
RY/BY
CE

B-b

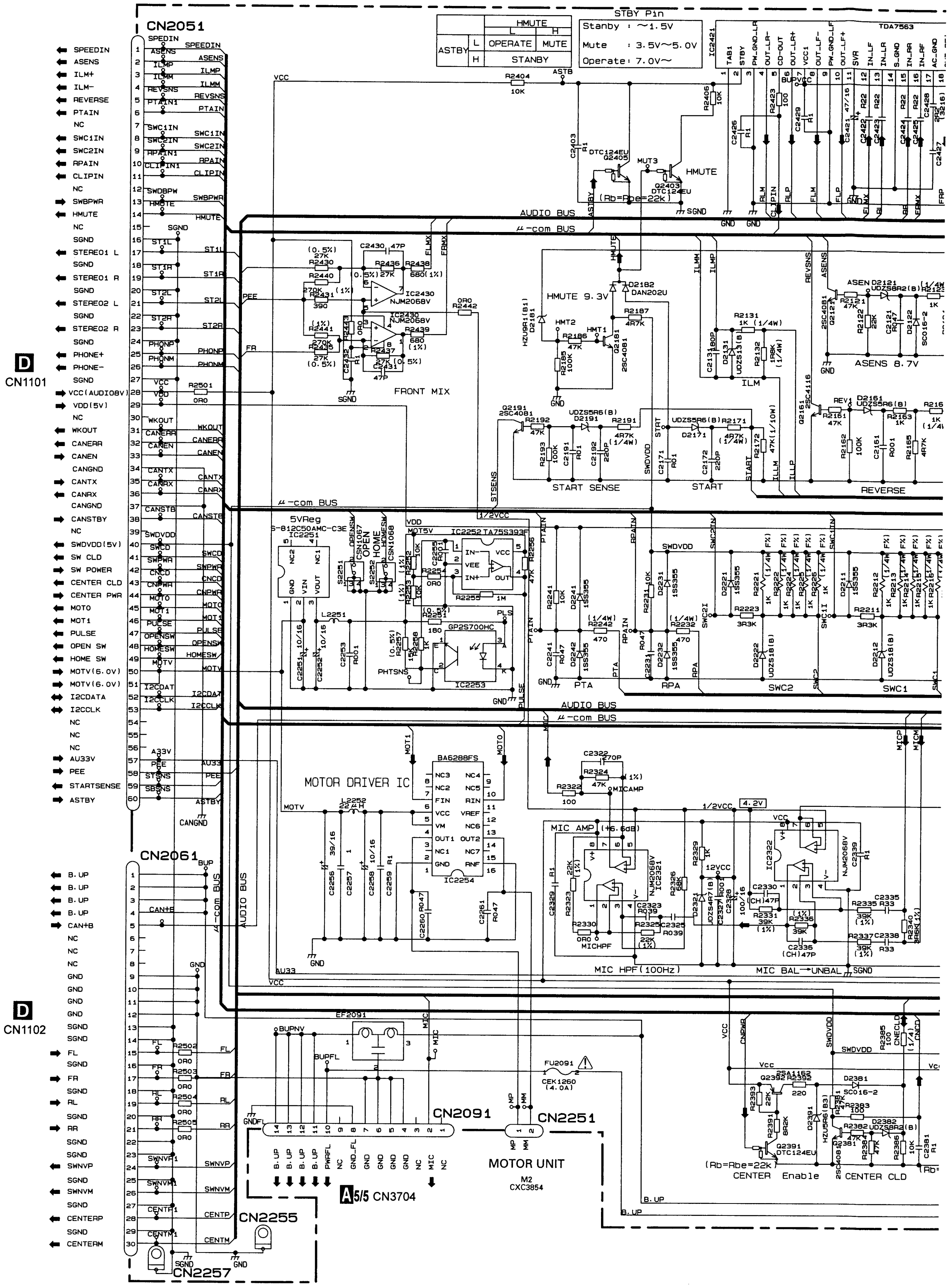
B-a B-b

AVIC-XD1057ZF/UC


A
B
C
D
E
F
5
6
7
8
B-a
B-b
1
IC505
VIN
VSS
ON/OFF
VOUT
NC
S-1112B15MC-L6A
C523
C522
R47
GNDGID
R521
1K
R517
47K
C531
1200P
IC503
VSS
VDD
CD
OUT
S-80929CNNB-G8Z
C529
R1
R518
10K
RST
C526
R1
C519
10P
C520
10P
X501
CSS1319
RTCCK16
BUVDD
BUVCC
XRTCIN
RTCGND
STANBYB
XRTCOUT
RTCCK16
NMI
RTCVCC
RTCSTANBYB
IRQ5B
RESETB
IRQ4B
MSRESETB
TIOB1
TIOB0
R528 10K
R531 0R0
TIOA1
SCICK
VCC2
TIOA0
R530
0R0
R529
0R0
C514
R1
CTOGPS
RXD0
VSS1
RXD1
RXDD
TXDD
TXD1
GPSTOC
GND2
DDIO1
TXD0
DDIO2
DDSCK
DDTX
DDIO0
DDRX
PLIO2
DDINTB
Vdd1
DDCE
C511
R1
PLTX
PLRX
PLIO1
PLIO0
PWM
PLCE
VCC1
PLSCK
C510
R1
BOWMOWB
ADIO1
SPEED
PLINTB
VCC3
ADRXD
ADIO0
ADIO2
10K

3.9 CONNECTOR PCB(GUIDE PAGE)

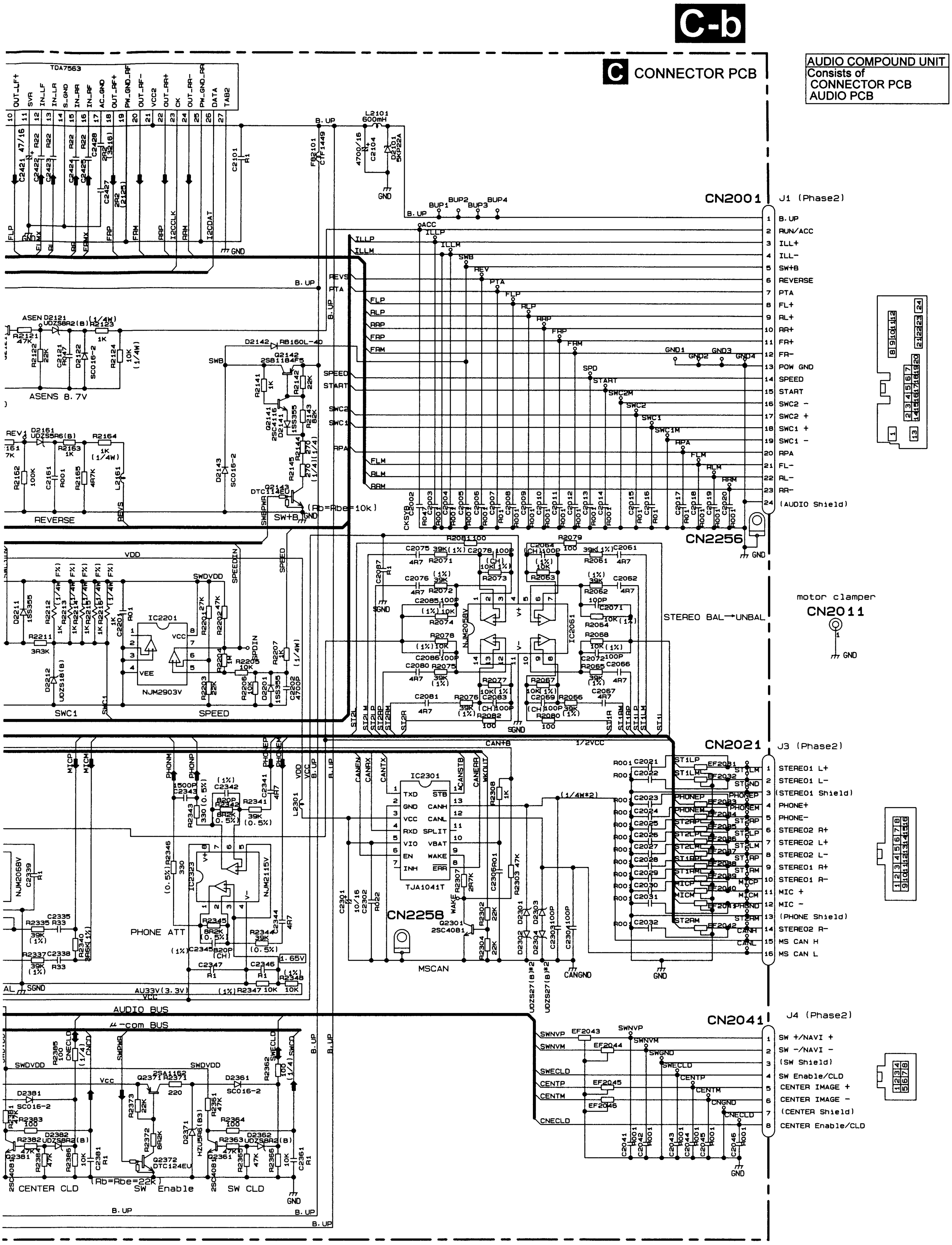
C-a

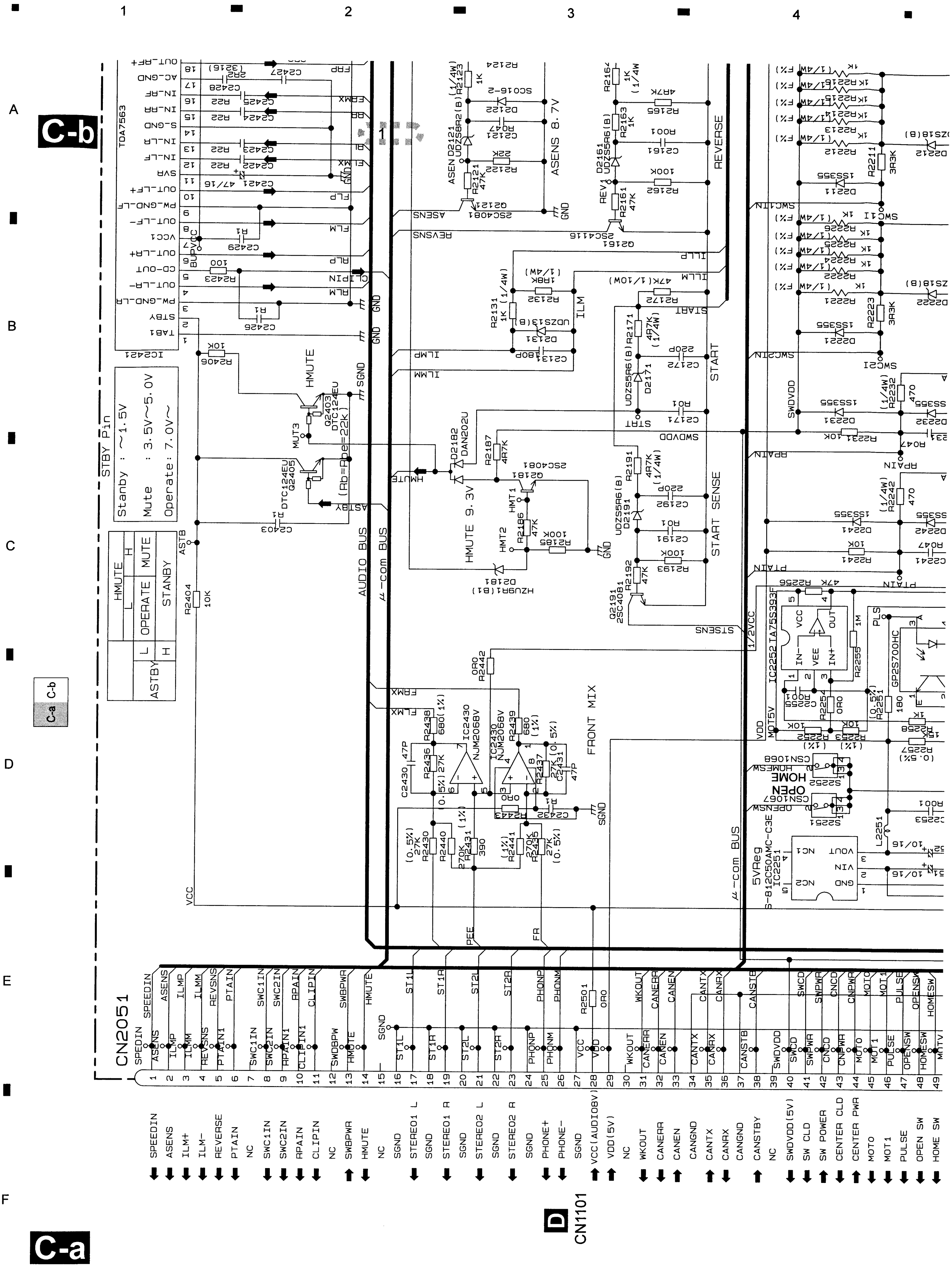

CN2051
1 SPEEDIN
2 ASENS
3 ILM+
4 ILM-
5 REVERSE
6 PTAIN
7 NC
8 SWC1IN
9 SWC2IN
10 RPAIN
11 CLIPIN
12 NC
13 SWBPWR
14 HMUTE
15 NC
16 SGND
17 STEREO1 L
18 SGND
19 STEREO1 R
20 SGND
21 STEREO2 L
22 SGND
23 STEREO2 R
24 SGND
25 PHONE+
26 PHONE-
27 SGND
28 VCC(AUDIO8V)
29 VDD(5V)
30 NC
31 WKOUT
32 CANERR
33 CANEN
34 CANGND
35 CANTX
36 CANRX
37 CANGND
38 CANSTBY
39 NC
40 SWDVDD(5V)
41 SW CLD
42 SW POWER
43 CENTER CLD
44 CENTER PWR
45 MOTO
46 MOT1
47 PULSE
48 OPEN SW
49 HOME SW
50 MOTV(6.0V)
51 MOTV(6.0V)
52 I2CDATA
53 I2CCLK
54 NC
55 NC
56 NC
57 AU33V
58 PEE
59 STARTSENSE
60 ASTBY
D CN1101
CN2061
1 B.UP
2 B.UP
3 B.UP
4 B.UP
5 CAN+B
6 NC
7 NC
8 NC
9 GND
10 GND
11 GND
12 GND
13 SGND
14 SGND
15 FL
16 SGND
17 FR
18 SGND
19 RL
20 SGND
21 RR
22 SGND
23 SGND
24 SWNVP
25 SGND
26 SWNVM
27 SGND
28 CENTERP
29 SGND
30 CENTERM
D CN1102
CN2255
CN2257
STBY Pin
Stanby : ~1.5V
Mute : 3.5V~5.0V
Operate : 7.0V~
ASTBY L OPERATE MUTE
ASTBY H STANBY
HMUTE L H
IC2421 TDA7563
TAB1 STBY PW_GND_LR OUT_LR- CD-OUT OUT_LR+ VCC1 OUT_LF- PW_GND_LF OUT_LF+ SVR IN_LF IN_LR S_GND IN_RR IN_RF AC_GND
Q2403 DTC124EU
Q2405 DTC124EU
(Rb=Rbe=22K)
HMUTE
MUT3
AUDIO BUS
μ-com BUS
FRONT MIX
IC2430 NJM2068V
HMUTE 9.3V
D2182 DAN202U
D2181 HZU5R1(B1)
Q2181 2SC4081
ILM
ASENS 8.7V
Q2121 2SC4081
START SENSE
START
REVERSE
Q2191 2SC4081
Q2161 2SC4116
5VReg
S-812C50AMC-C3E
IC2251
S2251 OPEN
S2252 HOME
CSN1057
CSN1068
IC2252 TA75S393F
IC2253 GP2S700HC
PHTSNS
PTA
RPA
SWC2
SWC1
MOTOR DRIVER IC
IC2254 BA6288FS
MIC AMP (+6.6dB)
IC2321 NJM2068V
IC2322 NJM2068V
MICHPF
MIC HPF(100Hz)
MIC BAL→UNBAL
MICAMP
1/2VCC
4.2V
EF2091
BUPNV
BUPFL
CN2091
1 NC 2 MIC 3 NC 4 GND 5 GND 6 GND 7 GND 8 GND_FL 9 NC 10 PWRFL 11 B.UP 12 B.UP 13 B.UP 14 B.UP
A 5/5 CN3704
FU2091 CEK1260 (4.0A)
CN2251
MOTOR UNIT
M2 CXC3854
Q2391 DTC124EU
Q2392 2SA1162
CENTER Enable
CENTER CLD
(Rb=Rbe=22K)
SWDVDD
CNPWR
CNECLD

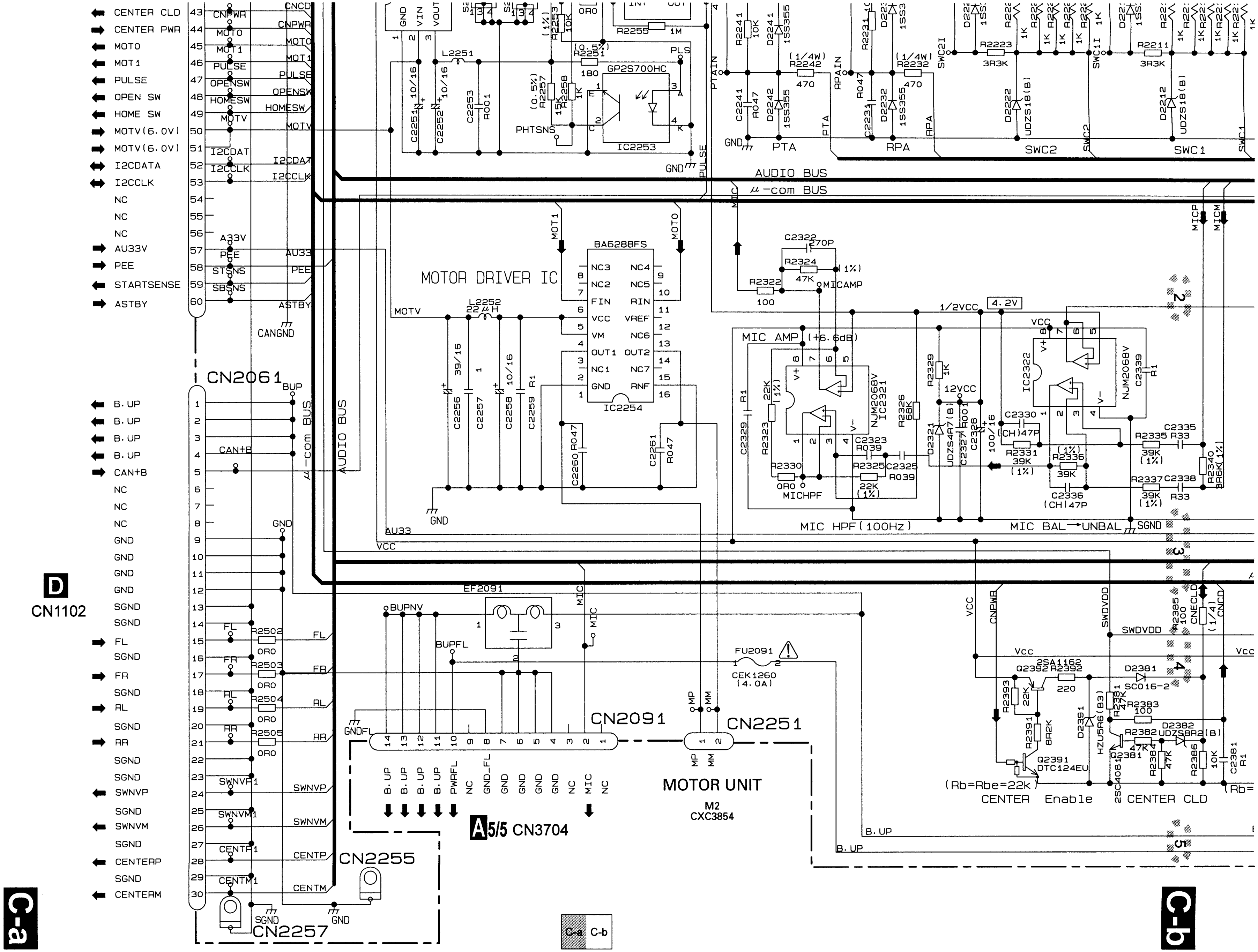
C

C-b

AUDIO COMPOUND UNIT
Consists of
CONNECTOR PCB
AUDIO PCB


C CONNECTOR PCB
TDA7563
CN2001 J1 (Phase2)
1 B.UP
2 RUN/ACC
3 ILL+
4 ILL-
5 SW+B
6 REVERSE
7 PTA
8 FL+
9 RL+
10 RR+
11 FR+
12 FR-
13 POW GND
14 SPEED
15 START
16 SWC2 -
17 SWC2 +
18 SWC1 +
19 SWC1 -
20 RPA
21 FL-
22 RL-
23 RR-
24 (AUDIO Shield)
CN2256
STEREO BAL→UNBAL
motor clamper
CN2011
CN2021 J3 (Phase2)
1 STEREO1 L+
2 STEREO1 L-
3 (STEREO1 Shield)
4 PHONE+
5 PHONE-
6 STEREO2 R+
7 STEREO2 L+
8 STEREO2 L-
9 STEREO1 R+
10 STEREO1 R-
11 MIC +
12 MIC -
13 (PHONE Shield)
14 STEREO2 R-
15 MS CAN H
16 MS CAN L
IC2301 TJA1041T
CN2258
MSCAN
NJM2068V
NJM2115V
NJM2903V
IC2201
IC2061
IC2323
PHONE ATT
ASENS 8.7V
REVERSE
SWC1
SPEED
AUDIO BUS
μ-com BUS
CN2041 J4 (Phase2)
1 SW +/NAVI +
2 SW -/NAVI -
3 (SW Shield)
4 SW Enable/CLD
5 CENTER IMAGE +
6 CENTER IMAGE -
7 (CENTER Shield)
8 CENTER Enable/CLD
CENTER CLD
SW Enable
SW CLD
B.UP
GND


C-a
C-b
CN2051
D
CN1101
SPEEDIN
ASENS
ILM+
ILM-
REVERSE
PTAIN
NC
SWC1IN
SWC2IN
RPAIN
CLIPIN
SWBPWR
HMUTE
SGND
STEREO1 L
STEREO1 R
STEREO2 L
STEREO2 R
PHONE+
PHONE-
VCC(AUDIO8V)
VDD(5V)
WKOUT
CANERR
CANEN
CANGND
CANTX
CANRX
CANSTBY
SWDVDD(5V)
SW CLD
SW POWER
CENTER CLD
CENTER PWR
MOTO
MOT1
PULSE
OPEN SW
HOME SW
R2501 0R0
VCC
AUDIO BUS
μ-com BUS
FRONT MIX
IC2430 NJM2068V
R2430 27K (0.5%)
R2440 270K
R2431 390 (1%)
R2441 (1%)
R2435 27K (0.5%)
C2430 47P
R2436 27K (0.5%)
R2438 680(1%)
R2439 680 (1%)
R2437 27K (0.5%)
C2431 47P
C2432 R1
R2443 0R0
R2442 0R0
FLMX
FRMX
PEE
FR
SGND
5VReg S-812C50AMC-C3E IC2251
GND
VIN
VOUT
NC1
NC2
L2251
10/16
C2253 R001
S2251 CSN1067 OPEN
S2252 CSN1068 HOME
OPENSW
HOMESW
R2257 15K (0.5%)
R2258 1K
R2253 10K (1%)
R2252 10K (1%)
R2251 180 (0.5%)
R2254 0R0
C2255 R001
IC2252 TA75S393F
IN-
IN+
VEE
VCC
OUT
R2255 1M
R2256 47K
GP2S700HC
PLS
VDD
MOT5V
1/2VCC
STSENS
Q2191 2SC4081
R2192 47K
R2193 100K
C2191 R01
C2192 220P
D2191 UDZS5R6(B)
R2191 4R7K (1/4W)
START SENSE
STRT
C2171 R01
D2171 UDZS5R6(B)
C2172 220P
R2171 4R7K (1/4W)
START
R2172 47K(1/10W)
ILLM
ILLP
SWDVDD
PTAIN
RPAIN
SWC2IN
SWC1IN
C2241 R047
R2241 10K
D2242 SS355
D2241 1SS355
R2242 470 (1/4W)
R2231 10K
R047
D2232 SS355
D2231 1SS355
R2232 470 (1/4W)
SWC2I
D2221 1SS355
R2223 3R3K
D2222 ZS18(B)
R2221 R2222 R2224 R2225 R2226 1K (1/4W) F%
SWC1I
D2211 1SS355
R2211 3R3K
D2212 ZS18(B)
R2212 R2213 R2214 R2215 R2216 1K (1/4W) F%
HZU9R1(B1) D2181
HMUTE 9.3V
HMT1
HMT2
R2185 100K
R2186 47K
Q2181 2SC4081
R2187 4R7K
D2182 DAN202U
HMUTE
GND
ILMM
ILMP
C2131 180P
D2131 UDZS13(B)
R2131 1K (1/4W)
R2132 1R8K (1/4W)
ILM
REVSNS
Q2161 2SC4116
R2161 47K
REV1
D2161 UDZS5R6(B)
R2162 100K
C2161 R001
R2163 1K
R2165 4R7K
R2164 1K (1/4W)
REVERSE
ASENS
Q2121 2SC4081
R2121 47K
ASEN
D2121 UDZS8R2(B)
R2122 22K
C2121 R047
D2122 SC016-2
R2123 1K (1/4W)
R2124
ASENS 8.7V
R2404 10K
ASTB
ASTBY
C2403 R1
Q2405 DTC124EU
(Rb=Rbe=22K)
MUT3
Q2403 DTC124EU
R2406 10K
HMUTE
ASTBY
L
H
OPERATE
STANBY
MUTE
STBY Pin
Stanby : ~1.5V
Mute : 3.5V~5.0V
Operate: 7.0V~
IC2421
TDA7563
TAB1
STBY
PW_GND_LR
OUT_LR-
CD-OUT
OUT_LR+
VCC1
OUT_LF-
PW_GND_LF
OUT_LF+
SVR
IN_LF
IN_LR
S_GND
IN_RR
IN_RF
AC_GND
OUT_RF+
C2426 R1
R2423 100
C2429 R1
BUPVCC
C2421 47/16
C2422 R22
C2423 R22
C2424 R22
C2425 R22
C2428 2R2 (3216)
C2427
RLM
CLIPIN
RLP
FLM
FLP
FLMX
RL
RR
FRMX
FRP
1
2
3
4
A
B
C
D
E
F

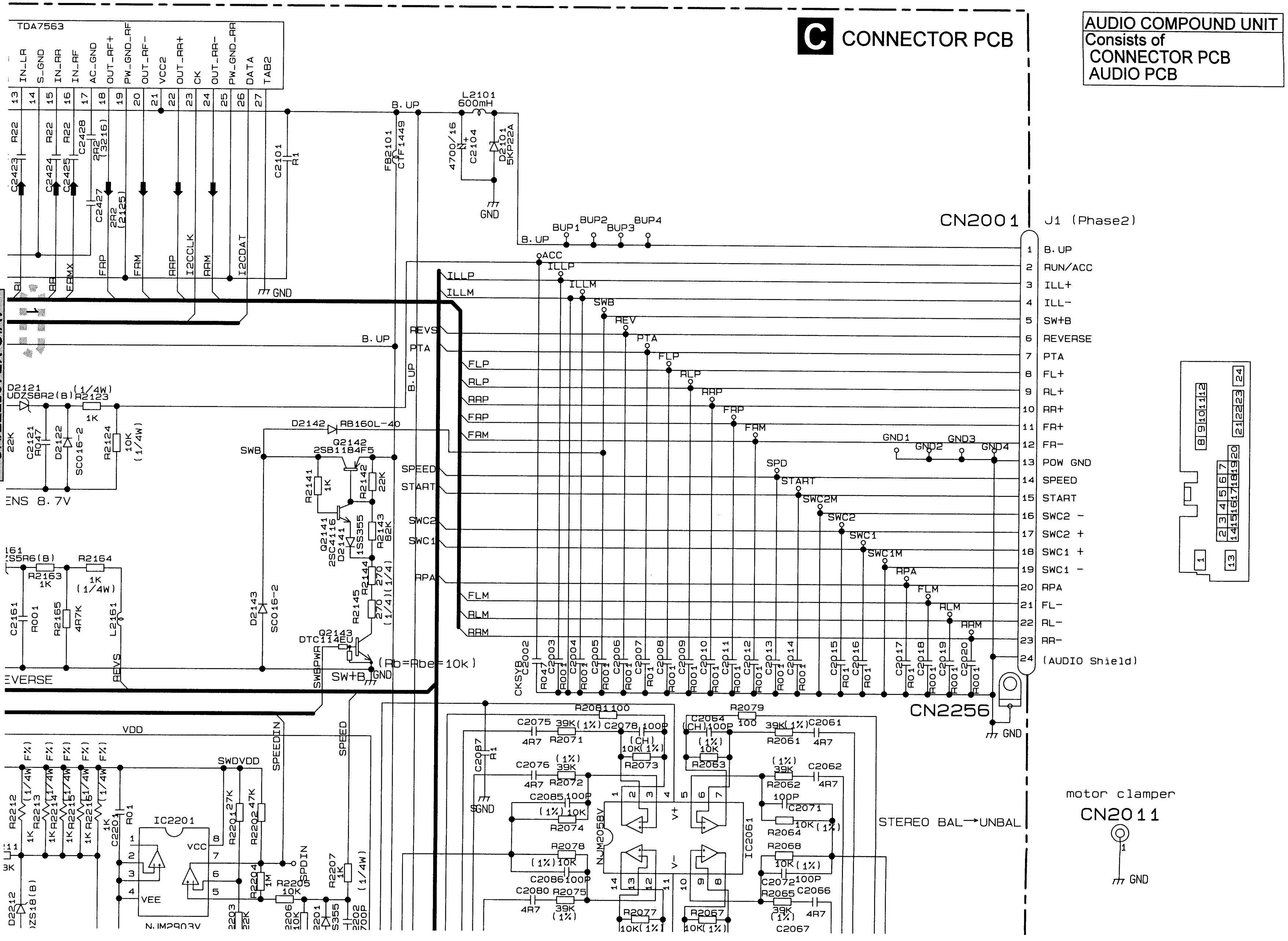


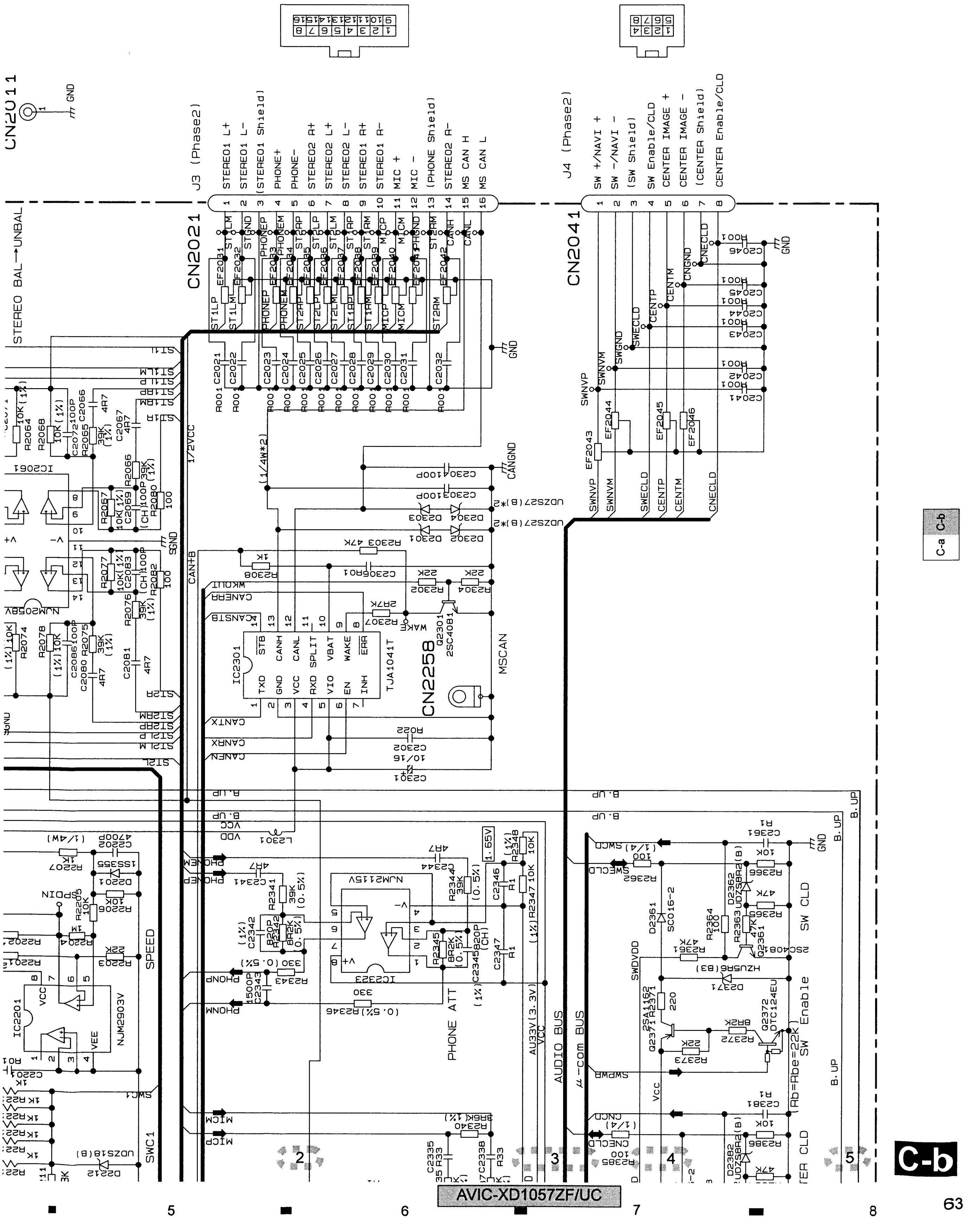
C-a
C-b
D
CN1102
CN2061
CENTER CLD
CENTER PWR
MOTO
MOT1
PULSE
OPEN SW
HOME SW
MOTV(6.0V)
MOTV(6.0V)
I2CDATA
I2CCLK
NC
AU33V
PEE
STARTSENSE
ASTBY
B.UP
CAN+B
GND
SGND
FL
FR
RL
RR
SWNVP
SWNVM
CENTERP
CENTERM
CANGND
BUP
μ-com BUS
AUDIO BUS
MOTOR DRIVER IC
BA6288FS
IC2254
NC3 NC4 NC2 NC5 FIN RIN VCC VREF VM NC6 OUT1 OUT2 NC1 NC7 GND RNF
MOTV
L2252 22μH
C2256 39/16
C2257 1
C2258 10/16
C2259 R1
C2250 R047
C2261 R047
MOT1
MOTO
EF2091
BUPNV
BUPFL
MIC
FU2091
CEK1260 (4.0A)
CN2091
CN2251
A5/5 CN3704
PWRFL
GND_FL
MP
MM
MOTOR UNIT
M2
CXC3854
CN2255
CN2257
GNDFL
R2502 R2503 R2504 R2505 0R0
CENTM1 CENTP1 SWNVM1 SWNVP1
L2251
C2251 10/16
C2252 10/16
C2253 R001
GND VIN VOUT
R2257 (0.5%) 15K
R2258 1K
R2251 180
R2253 (1%) 10K
R2255 1M
GP2S700HC
IC2253
PHTSNS
PLS
PTAIN
PTA
RPAIN
RPA
C2241 R047
R2241 10K
D2241 1SS355
D2242 1SS355
R2242 (1/4W) 470
C2231
R2231
D2231 1SS355
D2232 1SS355
R2232 (1/4W) 470
SWC2I
SWC2
SWC1I
SWC1
R2223 3R3K
D2222 UDZS18(B)
R2211 3R3K
D2212 UDZS18(B)
1K
MIC AMP (+6.6dB)
NJM2068V
IC2321
C2322 270P
R2324 47K (1%)
R2322 100
MICAMP
C2329 R1
R2323 22K (1%)
R2330 0R0
MICHPF
C2323 R039
R2325 22K (1%)
C2325 R039
R2326 68K
R2329 1K
12VCC
D2321 UDZS4R7(B)
C2327 R001
C2328 100/16
1/2VCC
4.2V
MIC HPF (100Hz)
IC2322
NJM2068V
C2339 R1
C2330 (CH) 47P
R2331 39K (1%)
R2336 (1%) 39K
C2336 (CH) 47P
R2335 39K (1%)
C2335 R33
R2337 39K (1%)
C2338 R33
R2340 3R6K (1%)
MIC BAL→UNBAL
SGND
MICP
MICM
AU33
VCC
CNPWR
SWDVDD
R2385 100
CNECLD (1/4)
CNCD
2SA1162
Q2392
R2392 220
R2393 22K
R2391 8R2K
Q2391 DTC124EU
(Rb=Rbe=22k)
CENTER Enable
D2391 HZU5R6(B3)
D2381 SC016-2
R2381 47K
R2383 100
R2382 47K
D2382 UDZS8R2(B)
Q2381 2SC4081
R2384 47K
R2386 10K
C2381 R1
CENTER CLD
Vcc
B.UP
1 2 3 4 5 6 7 8
A B C D E F

AVIC-XD1057ZF/UC

C CONNECTOR PCB

AUDIO COMPOUND UNIT
Consists of
CONNECTOR PCB
AUDIO PCB


TDA7563
13 IN_LR
14 S_GND
15 IN_RR
16 IN_RF
17 AC_GND
18 OUT_RF+
19 PW_GND_RF
20 OUT_RF-
21 VCC2
22 OUT_RR+
23 CK
24 OUT_RR-
25 PW_GND_RR
26 DATA
27 TAB2
C2423 R22
C2424 R22
C2425 R22
C2428 2R2 (3216)
C2427 2R2 (2125)
C2101 R1
FRP
FRM
RRP
I2CCLK
RRM
I2CDAT
GND
FB2101 CTF1449
B. UP
L2101 600mH
4700/16 C2104
D2101 5KP22A
GND
D2121 UDZS8R2(B)
R2123 1K (1/4W)
22K
C2121 R047
D2122 SC016-2
R2124 10K (1/4W)
ENS 8.7V
D2142 RB160L-40
SWB
Q2142 2SB1184F5
R2141 1K
R2142 22K
Q2141 2SC4116
D2141 1SS355
R2143 82K
R2144 270 (1/4)
R2145 270 (1/4)
D2143 SC016-2
Q2143 DTC114EU
SWBPWR
SW+B
GND
(Rb=Rbe=10K)
C2161 R001
R2163 1K
R2164 1K (1/4W)
R2165 4R7K
L2161
REVS
EVERSE
VDD
SWDVDD
SPEEDIN
SPEED
IC2201
NJM2903V
VCC
VEE
R2201 27K
R2202 47K
R2204 1M
R2205 10K
R2207 1K (1/4W)
SPDIN
C2201 R01
R2212 R2213 R2214 R2215 R2216
1K (1/4W) F%
D2212 ZS18(B)
CN2001
J1 (Phase2)
1 B.UP
2 RUN/ACC
3 ILL+
4 ILL-
5 SW+B
6 REVERSE
7 PTA
8 FL+
9 RL+
10 RR+
11 FR+
12 FR-
13 POW GND
14 SPEED
15 START
16 SWC2 -
17 SWC2 +
18 SWC1 +
19 SWC1 -
20 RPA
21 FL-
22 RL-
23 RR-
24 (AUDIO Shield)
B.UP
BUP1 BUP2 BUP3 BUP4
ACC
ILLP
ILLM
SWB
REV
PTA
FLP
RLP
RRP
FRP
FRM
GND1 GND2 GND3 GND4
SPD
START
SWC2M
SWC2
SWC1
SWC1M
RPA
FLM
RLM
RRM
REVS
SPEED
START
SWC2
SWC1
CKSYB
C2002 C2003 C2004 C2005 C2006 C2007 C2008 C2009 C2010 C2011 C2012 C2013 C2014 C2015 C2016 C2017 C2018 C2019 C2020
R047 R001 R01
CN2256
GND
C2087 R1
SGND
NJM2058V
IC2061
V+
V-
R2081 100
R2079 100
C2075 39K (1%) R2071 4R7
C2078 100P
(CH) 10K (1%) R2073
C2064 (CH) 100P
(1%) 10K R2063
39K (1%) C2061 R2061 4R7
C2076 (1%) 39K R2072 4R7
C2085 100P
(1%) 10K R2074
R2078 (1%) 10K
C2086 100P
C2080 R2075 4R7 39K (1%)
R2077 10K (1%)
R2067 10K (1%)
(1%) 39K R2062 C2062 4R7
100P C2071
R2064 10K (1%)
R2068 10K (1%)
C2072 100P
R2065 C2066 39K (1%) 4R7
C2067
STEREO BAL→UNBAL
motor clamper
CN2011
GND
1 2 3 4 5 6 7 8 9 10 11 12
13 14 15 16 17 18 19 20 21 22 23 24

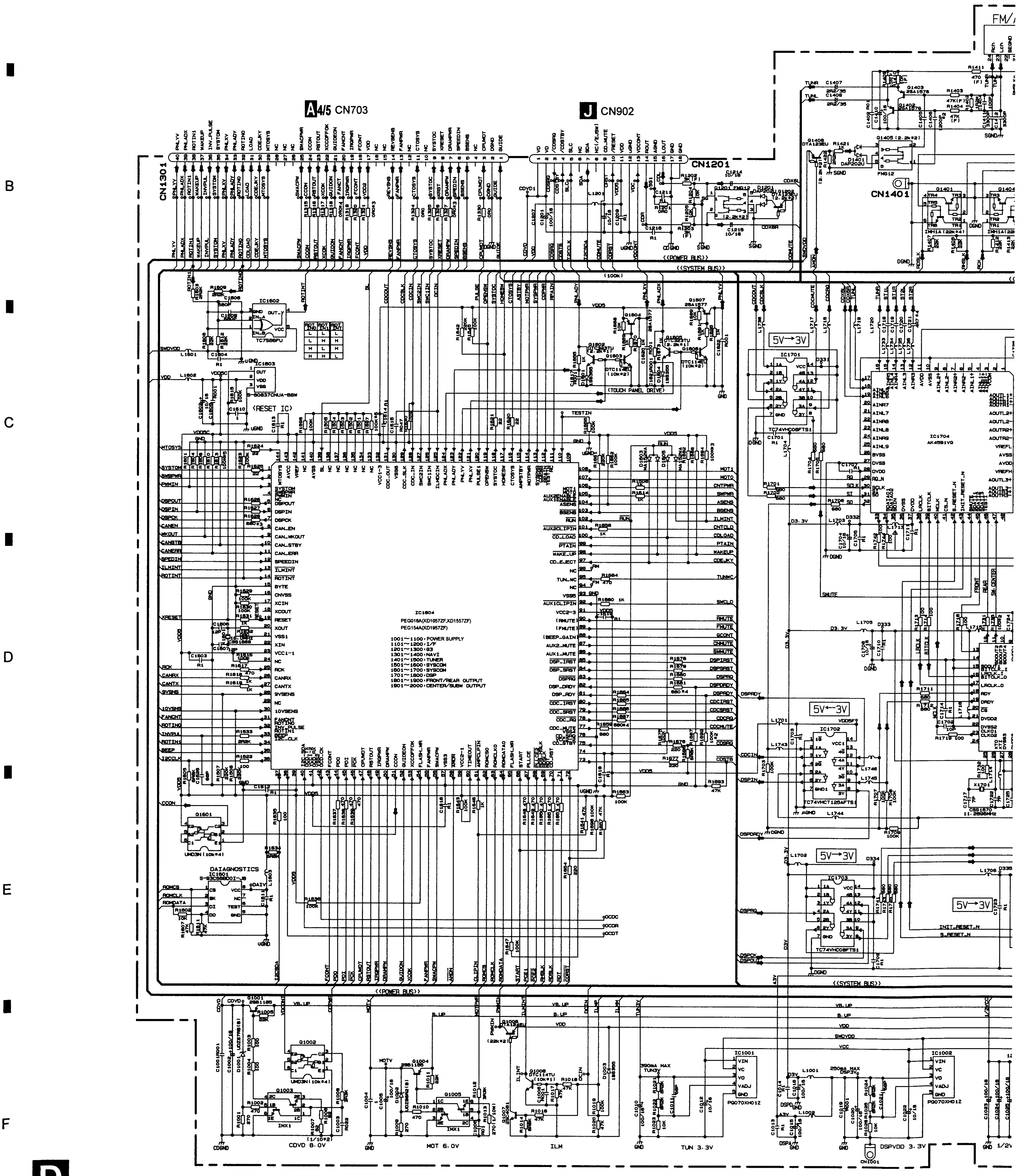

CN2011
GND
STEREO BAL→UNBAL
CN2021
J3 (Phase2)
1 STEREO1 L+
2 STEREO1 L-
3 (STEREO1 Shield)
4 PHONE+
5 PHONE-
6 STEREO2 R+
7 STEREO2 L+
8 STEREO2 L-
9 STEREO1 R+
10 STEREO1 R-
11 MIC +
12 MIC -
13 (PHONE Shield)
14 STEREO2 R-
15 MS CAN H
16 MS CAN L
CN2041
J4 (Phase2)
1 SW +/NAVI +
2 SW -/NAVI -
3 (SW Shield)
4 SW Enable/CLD
5 CENTER IMAGE +
6 CENTER IMAGE -
7 (CENTER Shield)
8 CENTER Enable/CLD
IC2301
TJA1041T
CN2258
MSCAN
Q2301 2SC4081
IC2061
NJM2058V
IC2323
NJM2115V
PHONE ATT
IC2201
NJM2903V
SPEED
AUDIO BUS
μ-com BUS
AU33V(3.3V)
VCC
B.UP
SWDVDD
Q2371 2SA1162
Q2372 DTC124EU
SW Enable
Rb=Rbe=22K
SW CLD
1/2VCC
CAN+B
CANGND
SPDIN
SGND
1.65V
2
3
4
5

C-a C-b

C-b

3.10 AUDIO PCB(GUIDE PAGE)

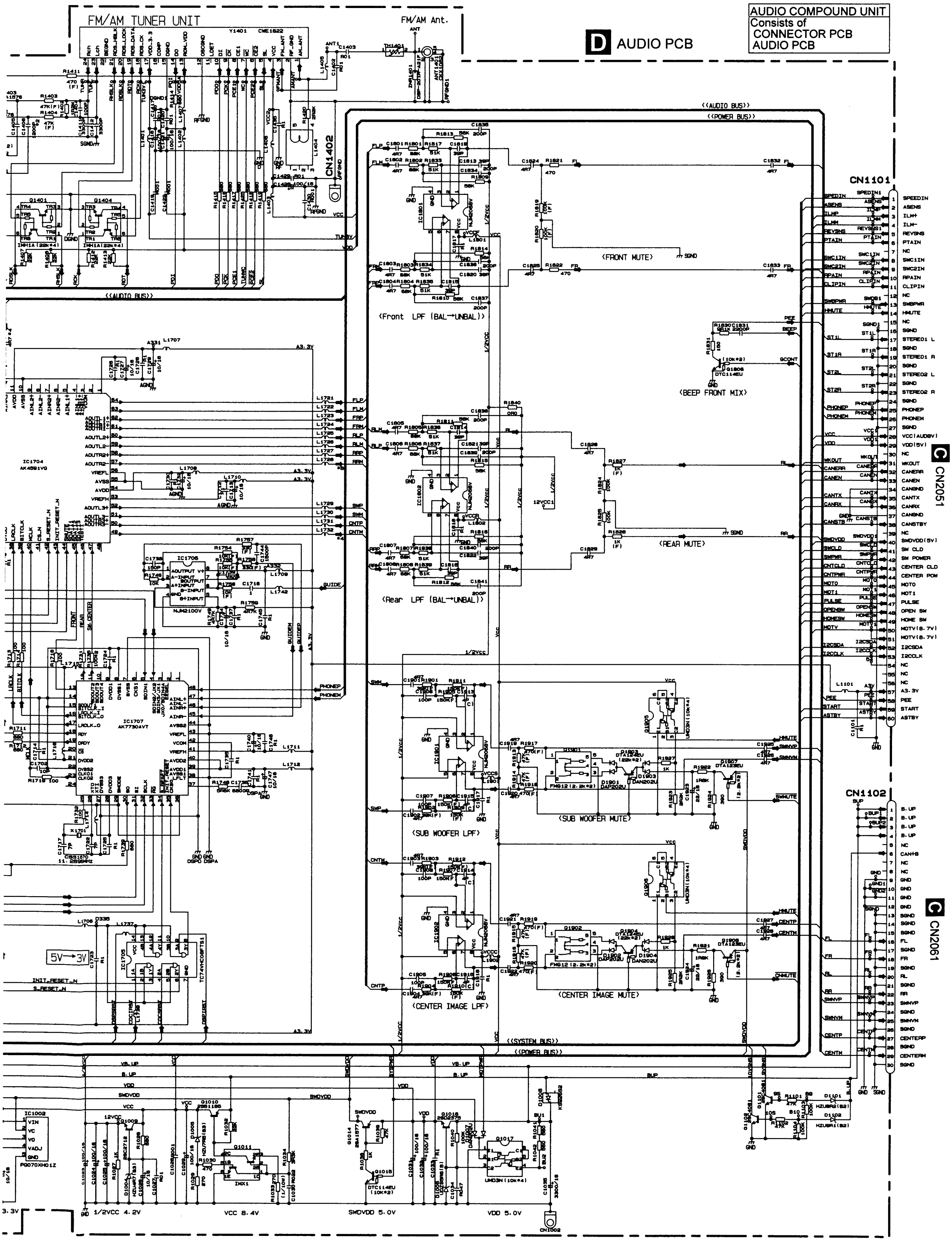
D-a

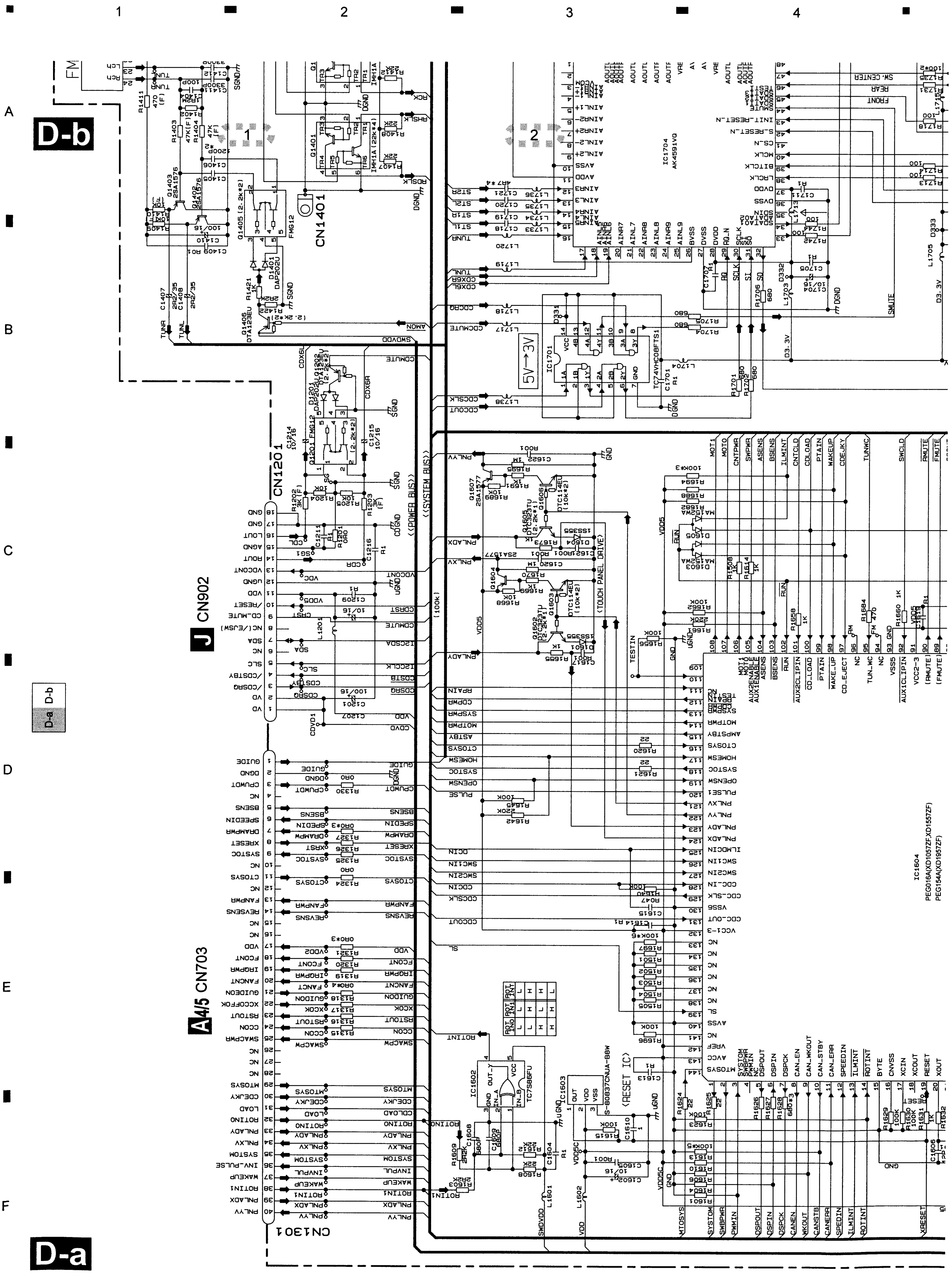

A
B
C
D
E
F
A 4/5 CN703
J CN902
CN1201
CN1301
CN1401
FM/
((SYSTEM BUS))
((POWER BUS))
IC1602
TC7S66FU
IC1603
S-80837CNUA-B8W
(RESET IC)
(TOUCH PANEL DRIVE)
IC1604
PEG016A(XD1057ZF,XD1557ZF)
PEG154A(XD1957ZF)
1001~1100 : POWER SUPPLY
1101~1200 : I/F
1201~1300 : G3
1301~1400 : NAVI
1401~1500 : TUNER
1501~1600 : SYSCOM
1601~1700 : SYSCOM
1701~1800 : DSP
1801~1900 : FRONT/REAR OUTPUT
1901~2000 : CENTER/SUBW OUTPUT
DAIAGNOSTICS
IC1601
IC1701
TC74VHC08FTS1
IC1702
TC74VHCT125AFTS1
IC1703
TC74VHC08FTS1
IC1704
AK4591VQ
5V→3V
5V←3V
5V→3V
5V→3V
IC1001
PQ070XH01Z
IC1002
PQ070XH01Z
CDVD 8.0V
MOT 6.0V
ILM
TUN 3.3V
DSPVDD 3.3V
1/2V
CN1001

D

D-b

AUDIO COMPOUND UNIT
Consists of
CONNECTOR PCB
AUDIO PCB


D AUDIO PCB
FM/AM TUNER UNIT
FM/AM Ant.
CN1402
CN1101
CN1102
C CN2051
C CN2061
((AUDIO BUS))
((POWER BUS))
((SYSTEM BUS))
<FRONT MUTE>
<Front LPF (BAL→UNBAL)>
<BEEP FRONT MIX>
<REAR MUTE>
<Rear LPF (BAL→UNBAL)>
<SUB WOOFER LPF>
<SUB WOOFER MUTE>
<CENTER IMAGE LPF>
<CENTER IMAGE MUTE>
IC1704 AK4591VQ
IC1705
IC1706 NJM2100V
IC1707 AK7730AVT
IC1801
IC1802
IC1901
IC1902
IC1002 PQ070XH01Z
TC74VHC08FTS1
5V→3V
INIT_RESET_N
S_RESET_N
1/2VCC 4.2V
VCC 8.4V
SWDVDD 5.0V
VDD 5.0V
CN1002
SPEEDIN
ASENS
ILM+
ILM-
REVSNS
PTAIN
NC
SWC1IN
SWC2IN
RPAIN
CLIPIN
SWBPWR
HMUTE
SGND
STEREO1 L
STEREO1 R
STEREO2 L
STEREO2 R
PHONEP
PHONEM
VCC(AUDBV)
VDD(5V)
WKOUT
CANERR
CANEN
CANGND
CANTX
CANRX
CANSTBY
SWDVDD(5V)
SW CLD
SW POWER
CENTER CLD
CENTER POW
MOT0
MOT1
PULSE
OPEN SW
HOME SW
MOTV(8.7V)
I2CSDA
I2CCLK
A3.3V
PEE
START
ASTBY
B.UP
CAN+B
GND
FL
FR
RL
RR
SWNVP
SWNVM
CENTERP
CENTERM


1
2
3
4
A
B
C
D
E
F
D-b
D-a
CN1401
CN1201
J CN902
A 4/5 CN703
CN1301
IC1704 AK4591VQ
IC1701 TC74VHC08FTS1
5V→3V
IC1602 TC7S86FU
IC1603 S-80837CNUA-B8W
(RESET IC)
(TOUCH PANEL DRIVE)
((POWER BUS))
((SYSTEM BUS))
IC1604 PEG016A(XD1057ZF,XD1557ZF) PEG154A(XD1957ZF)

A

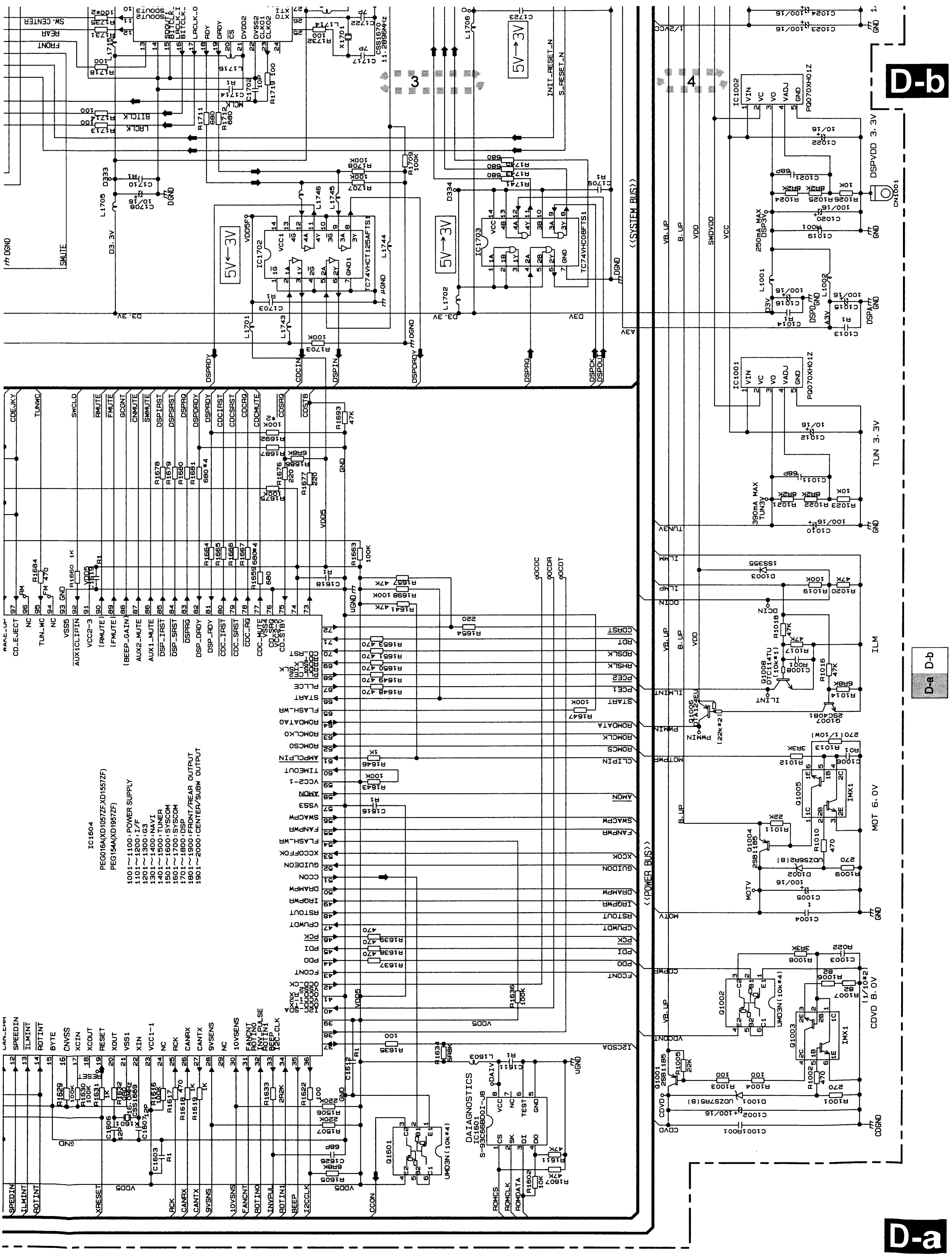
B

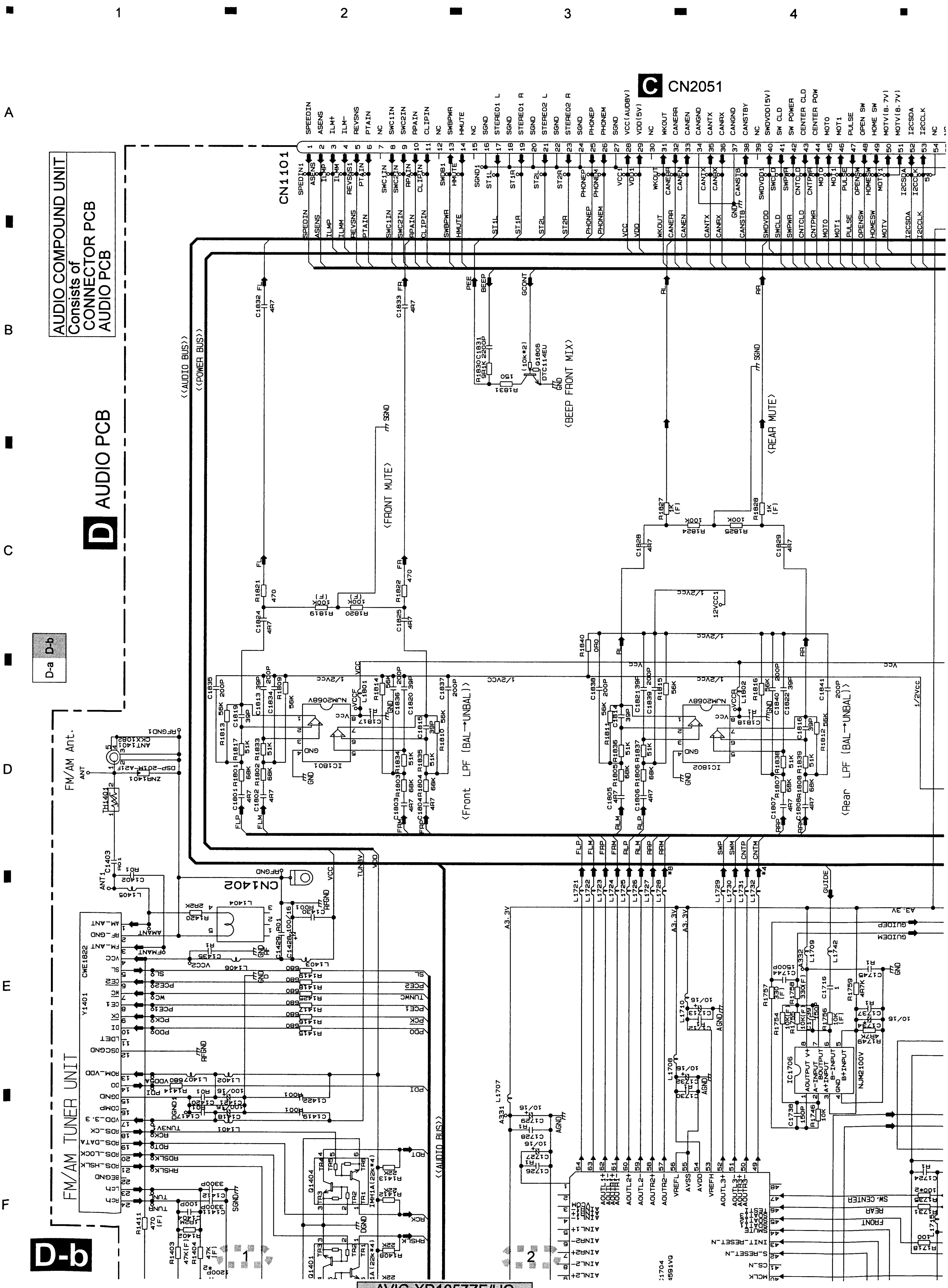
C

D

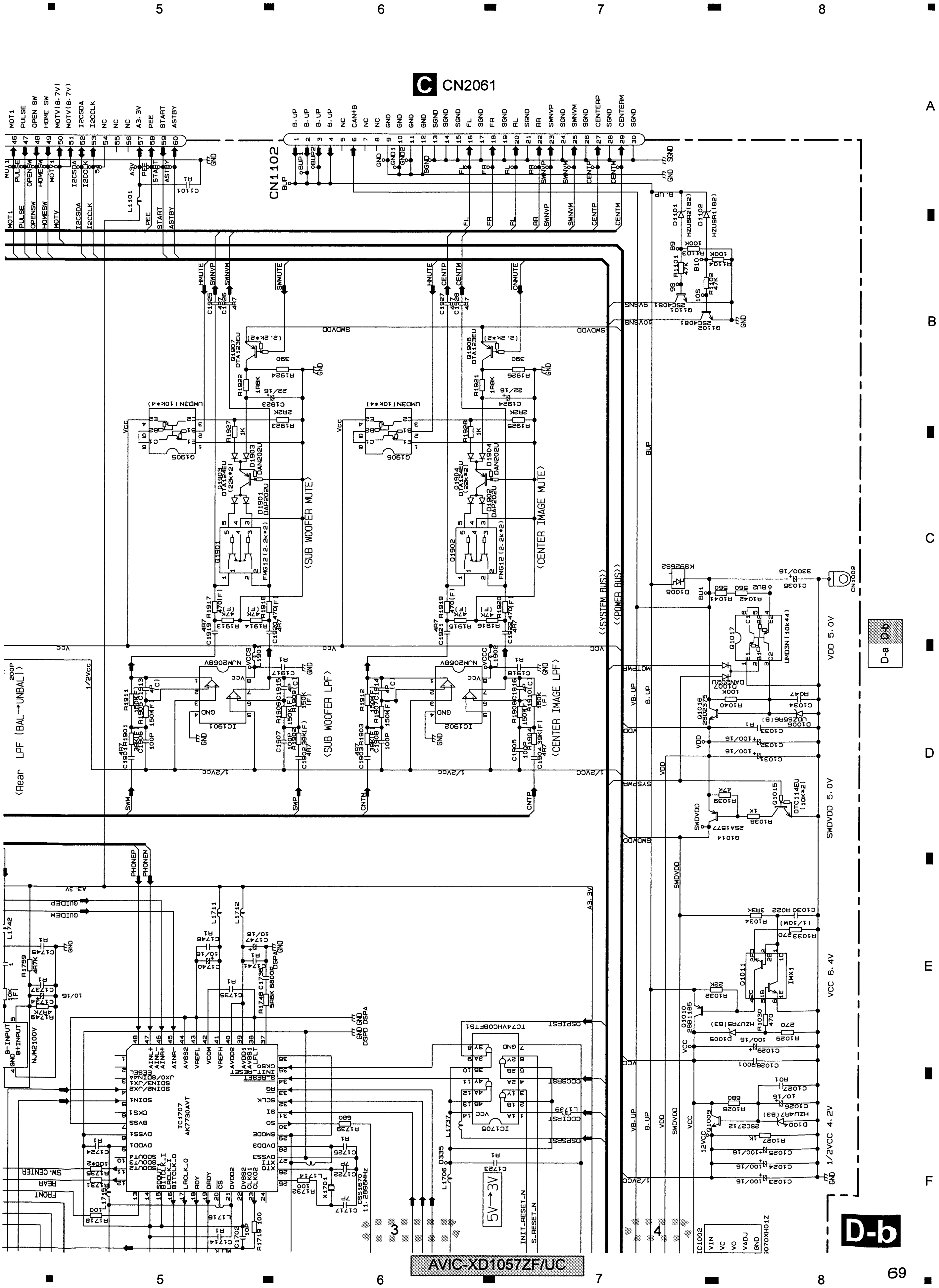
E

F


D-b
D-a
D-a D-b
IC1604
PEG016A(XD1057ZF,XD1557ZF)
PEG154A(XD1957ZF)
1001~1100:POWER SUPPLY
1101~1200:I/F
1201~1300:G3
1301~1400:NAVI
1401~1500:TUNER
1501~1600:SYSCOM
1601~1700:SYSCOM
1701~1800:DSP
1801~1900:FRONT/REAR OUTPUT
1901~2000:CENTER/SUBW OUTPUT
IC1702
TC74VHCT125AFTS1
IC1703
TC74VHC08FTS1
5V←3V
5V→3V
3
4
<<SYSTEM BUS>>
<<POWER BUS>>
IC1002
PQ070XH01Z
DSPVDD 3.3V
IC1001
PQ070XH01Z
TUN 3.3V
ILM
MOT 6.0V
CDVD 8.0V
IC1601
S-93C56BD0I-J8
DAIAGNOSTICS
Q1601
UMD3N(10k*4)
Q1002
UMD3N(10k*4)
Q1003
IMX1
Q1005
IMX1
INIT_RESET_N
S_RESET_N
CN1001

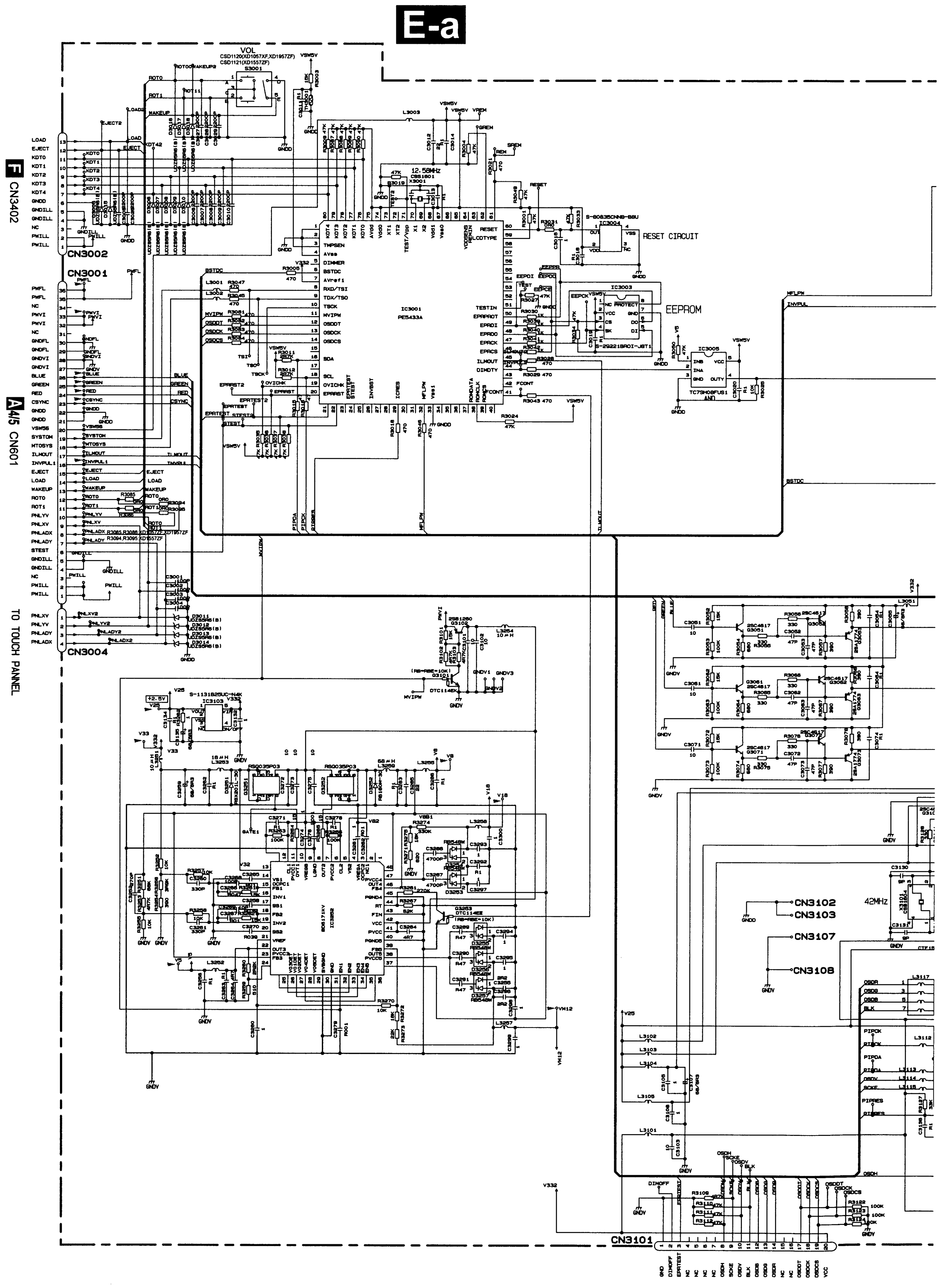

AUDIO COMPOUND UNIT
Consists of
CONNECTOR PCB
AUDIO PCB
D AUDIO PCB
C CN2051
CN1101
((AUDIO BUS))
((POWER BUS))
(BEEP FRONT MIX)
(FRONT MUTE)
(REAR MUTE)
(Front LPF (BAL→UNBAL))
(Rear LPF (BAL→UNBAL))
IC1801 NJM2068V
IC1802 NJM2068V
IC1706 NJM2100V
CN1402
FM/AM Ant.
FM/AM TUNER UNIT
CWE1822
D-a
D-b
A
B
C
D
E
F
1
2
3
4

D-b


5
6
7
8
A
B
C
D
E
F
C CN2061
CN1102
MOT1
PULSE
OPEN SW
HOME SW
MOTV(8.7V)
I2CSDA
I2CCLK
NC
A3.3V
PEE
START
ASTBY
B.UP
CAN+B
GND
SGND
FL
FR
RL
RR
SWNVP
SWNVM
CENTERP
CENTERM
HMUTE
SWMUTE
CNMUTE
SWDVDD
(SUB WOOFER MUTE)
(CENTER IMAGE MUTE)
(SUB WOOFER LPF)
(CENTER IMAGE LPF)
(Rear LPF (BAL→UNBAL))
《SYSTEM BUS》
《POWER BUS》
IC1901 NJM2068V
IC1902 NJM2068V
IC1707 AK7730AVT
IC1705 TC74VHC08FTS1
NJM2100V
IC1102 NJM2100V
Q1101 2SC4081
Q1102 2SC4081
Q1017 UMD3N(10k*4)
Q1016 2SD2375
Q1015 DTC114EU (10K*2)
Q1014 2SA1577
Q1011 IMX1
Q1010 2SB1185
Q1009 2SC2712
VDD 5.0V
SWDVDD 5.0V
VCC 8.4V
1/2VCC 4.2V
5V→3V
INIT_RESET_N
S_RESET_N
X1701 11.2896MHz
3
4
D-a D-b
D-b

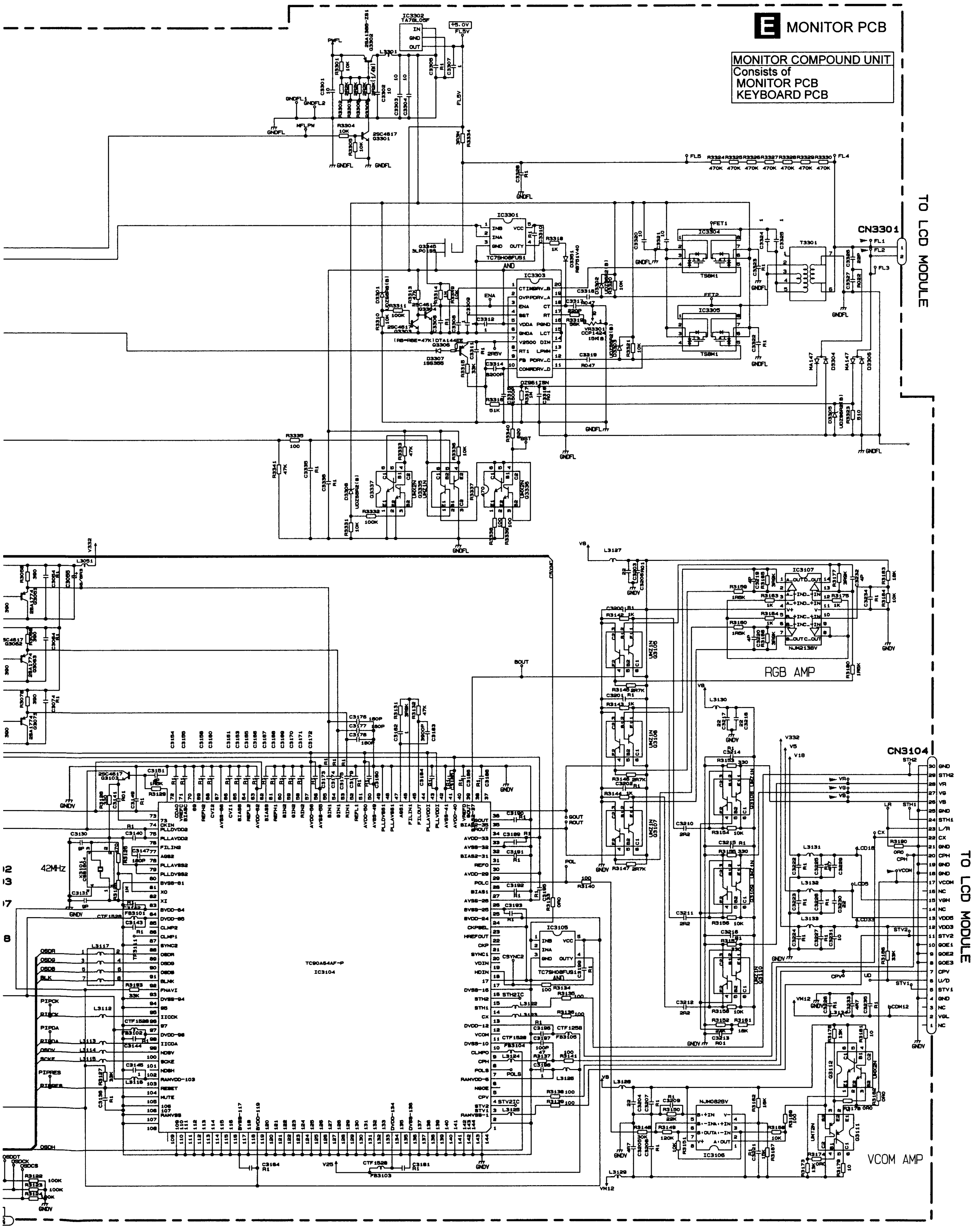
3.11 MONITOR PCB(GUIDE PAGE)

A B C D E F


E-a
VOL
CSD1120(XD1057XF,XD1957ZF)
CSD1121(XD1557ZF)
S3001
F CN3402
CN3002
CN3001
A 4/5 CN601
TO TOUCH PANEL
CN3004
12.58MHz
X3001
IC3001
PE5433A
IC3004
S-80835CNNB-B8U
RESET CIRCUIT
IC3003
S-29221BR0I-J8T1
EEPROM
IC3005
TC7SH08FUS1
IC3103
S-1131B25UC-N4K
IC3252
BD6171KV
RS0035P03
CN3102
CN3103
CN3107
CN3108
42MHz
CN3101

E

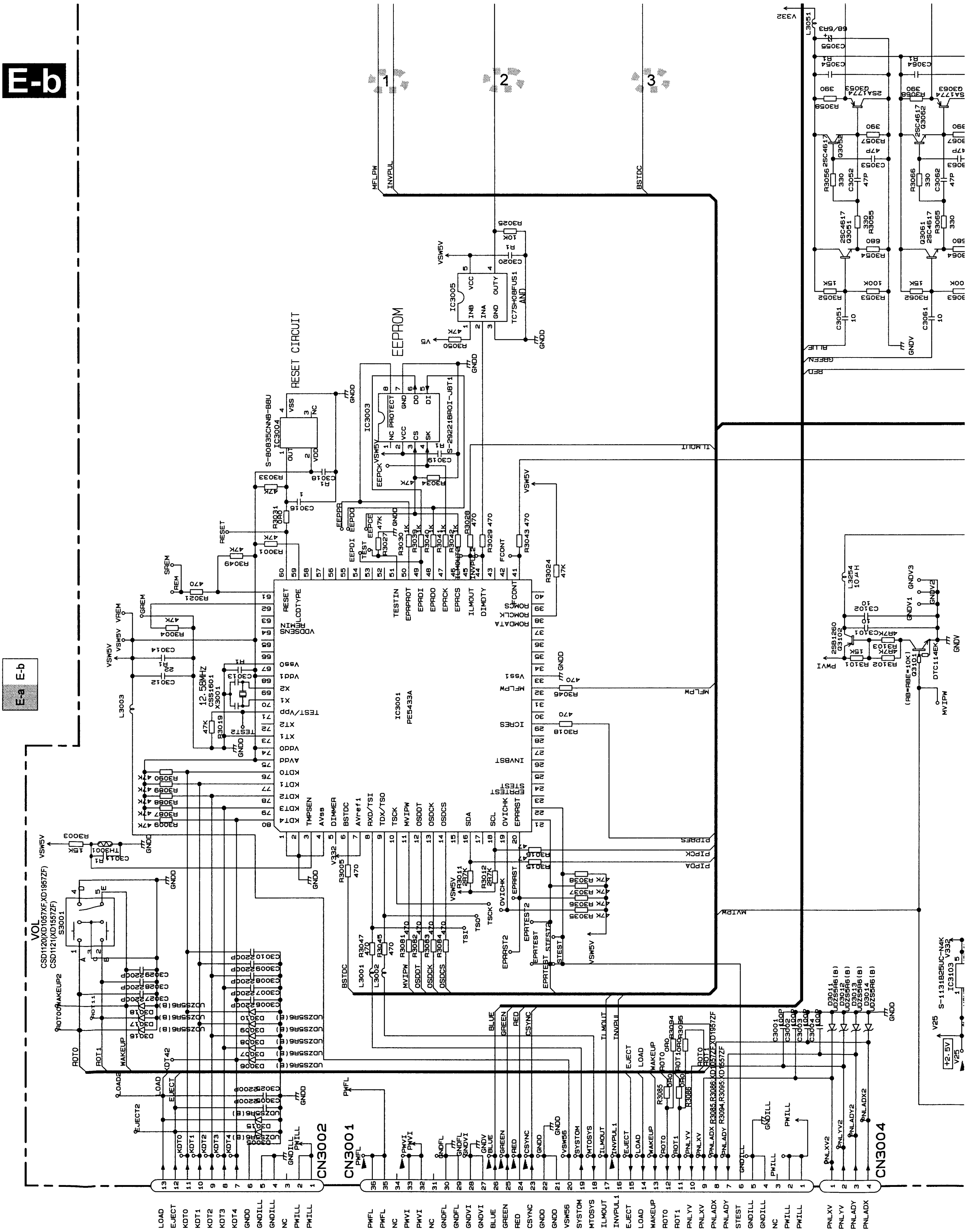
E-b


E MONITOR PCB
MONITOR COMPOUND UNIT
Consists of
MONITOR PCB
KEYBOARD PCB
TO LCD MODULE
CN3301
IC3302
TA78L05F
IC3301
TC7SH08FUS1
AND
IC3303
IC3304
IC3305
T3301
RGB AMP
IC3107
NJM2138V
CN3104
TO LCD MODULE
TC90A64AF-P
IC3104
IC3105
TC7SH08FUS1
AND
NJM062BV
IC3106
VCOM AMP
42MHz

A
B
C
D
E
F

E

E-b


A
B
C
D
E
F
E-b
E-a
EEPROM
RESET CIRCUIT
IC3001
PE5433A
IC3003
S-29221BR0I-J8T1
IC3004
S-80835CNNB-B8U
IC3005
TC7SH08FUS1
AND
X3001
CSS1601
12.58MHz
VOL
CSD1120(XD1057XF,XD1957ZF)
CSD1121(XD1557ZF)
S3001
IC3103
S-1131B25UC-N4K
Q3101
DTC114EK
Q3102
2SB1260
Q3051
Q3052
Q3053
Q3061
Q3062
Q3063
2SC4617
2SA1774
V332
VSW5V
GNDD
GNDV
MFLPW
INVPUL
BSTDC
ILMOUT
MVIPW
PIPRES
PIPCK
PIPDA
BLUE
GREEN
RED
CSYNC
PWVI
CN3002
CN3001
CN3004
LOAD
EJECT
KDT0
KDT1
KDT2
KDT3
KDT4
GNDD
GNDILL
GNDILL
NC
PWILL
PWILL
PWFL
PWFL
NC
PWVI
PWVI
NC
GNDFL
GNDFL
GNDVI
GNDVI
BLUE
GREEN
RED
CSYNC
GNDD
GNDD
VSW56
SYSTOM
MTOSYS
ILMOUT
INVPUL1
EJECT
LOAD
WAKEUP
ROTO
ROT1
PNLYV
PNLXV
PNLADX
PNLADY
STEST
GNDILL
GNDILL
NC
PWILL
PWILL
PNLXV
PNLYV
PNLADY
PNLADX

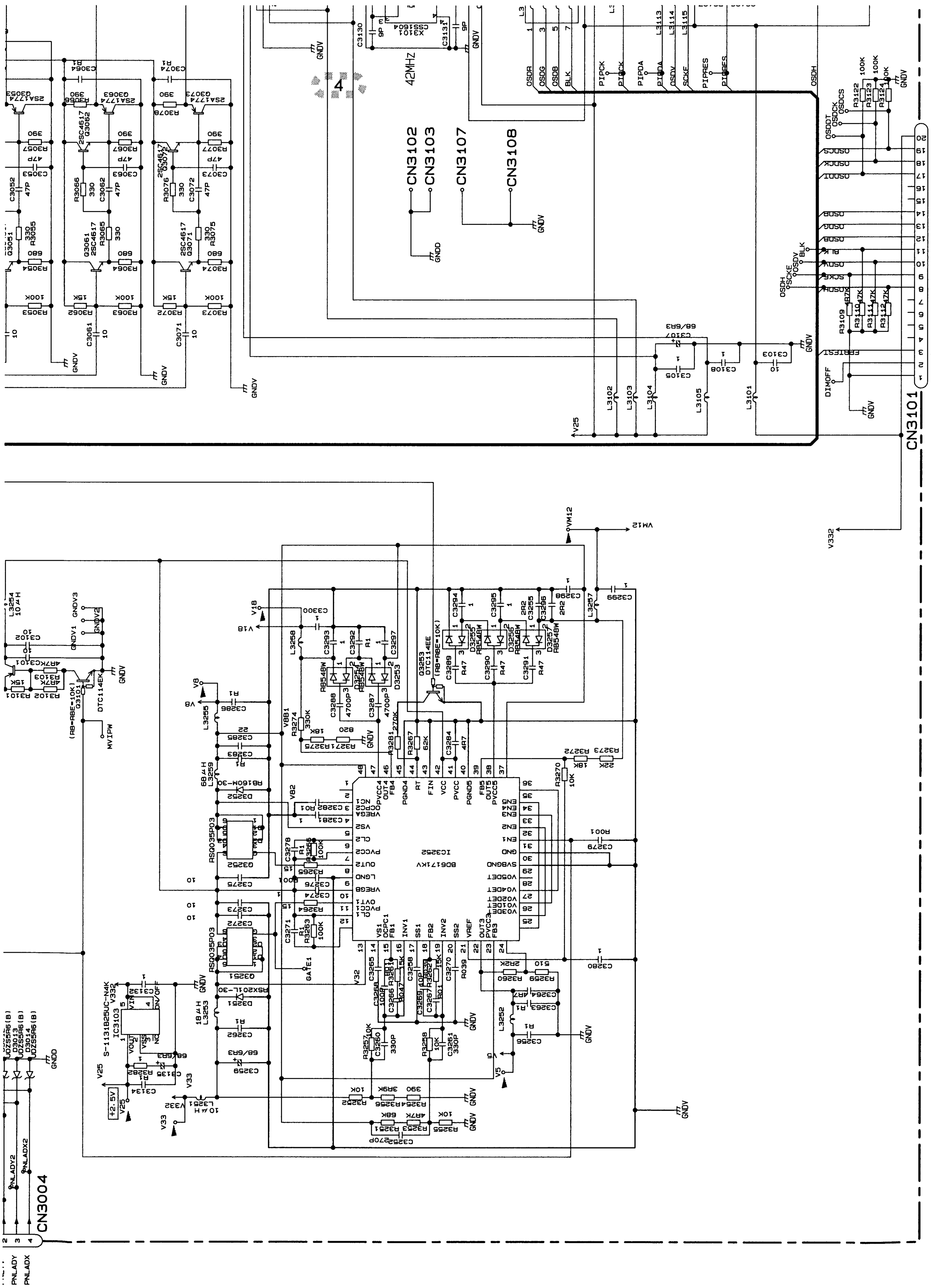
E-a

F CN3402

A4/5 CN601

TO TOUCH PANNEL

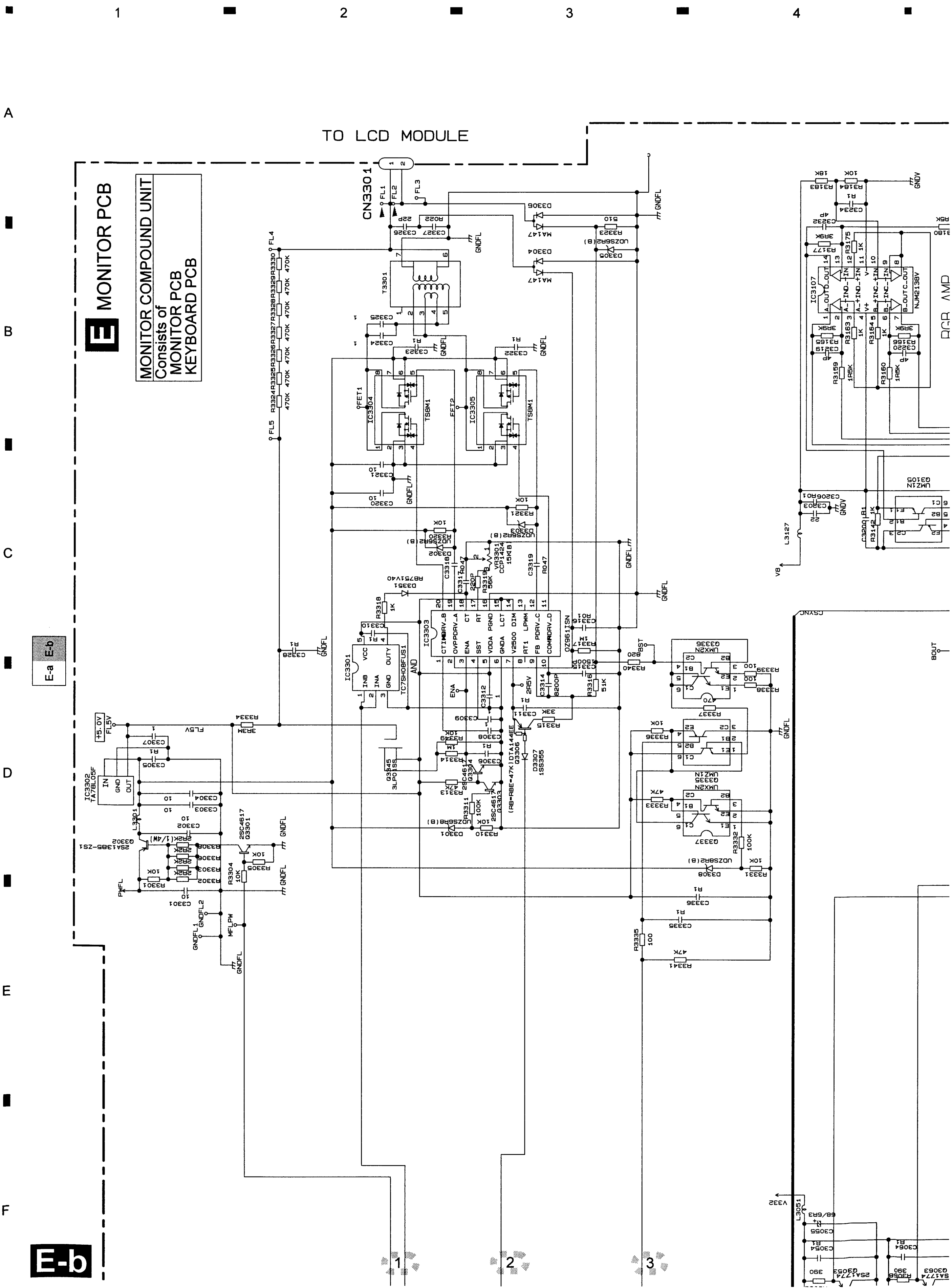
E-b

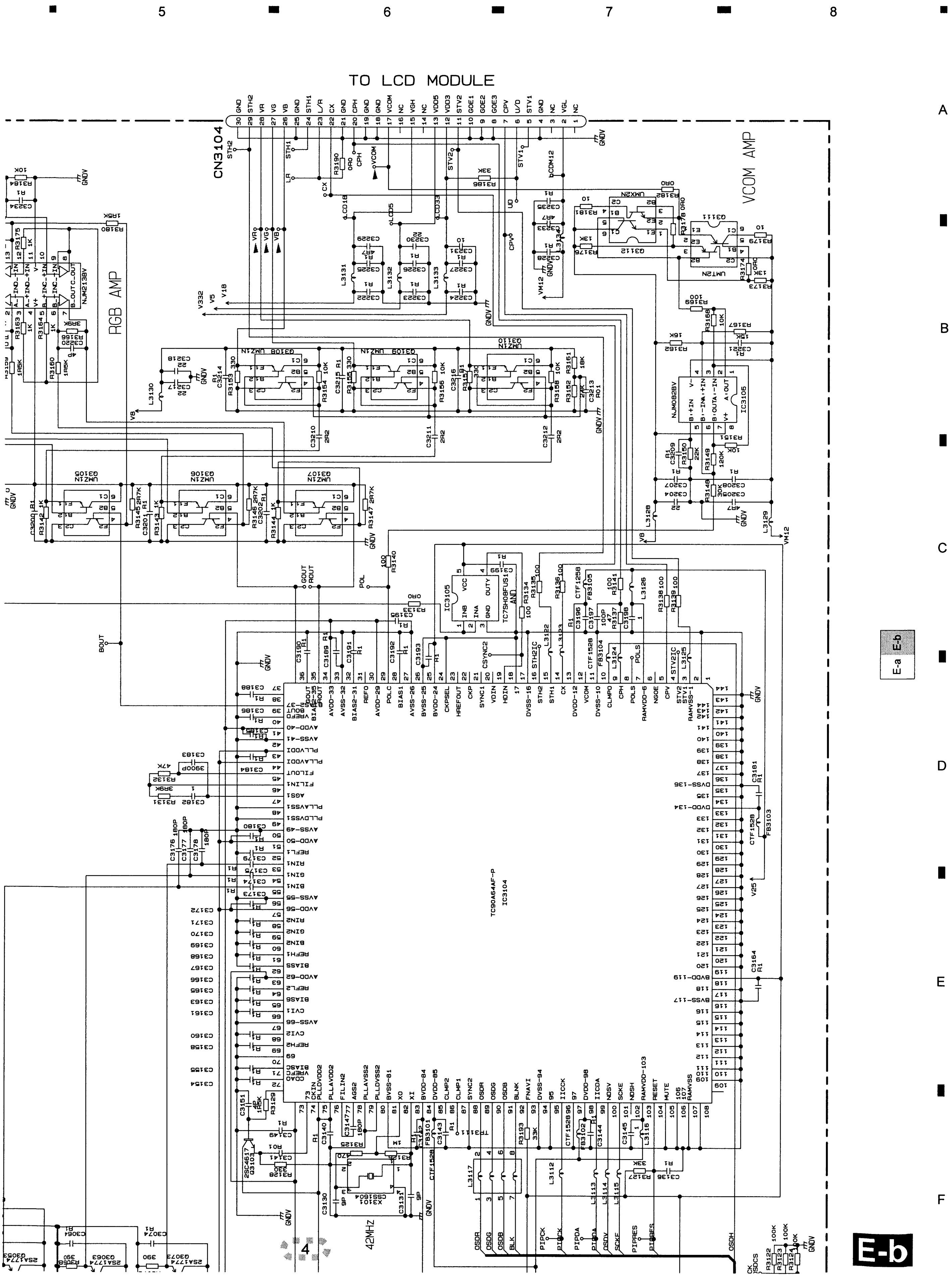

CN3101
VCC
OSDCS
OSDCK
OSDDT
NC
OSDR
OSDG
OSDB
BLK
OSDV
SCKE
OSDH
ERRTEST
DIMOFF
GND
CN3102
CN3103
CN3107
CN3108
X3101
CSS1604
42MHz
GNDV
GNDD
V25
V332
VM12
IC3252
BD6171KV
IC3103
S-1131B25UC-N4K
V18
V8
V33
V5
+2.5V
CN3004
PNLADY
PNLADX
PNLADY2
PNLADX2
MVIPW
2SA1774
2SC4617
DTC114EK
DTC114EE
RB548W
RSQ035P03
RSX201L-30
RB160M-30

TOUCH PANNEL

E-b
E-a

E-a

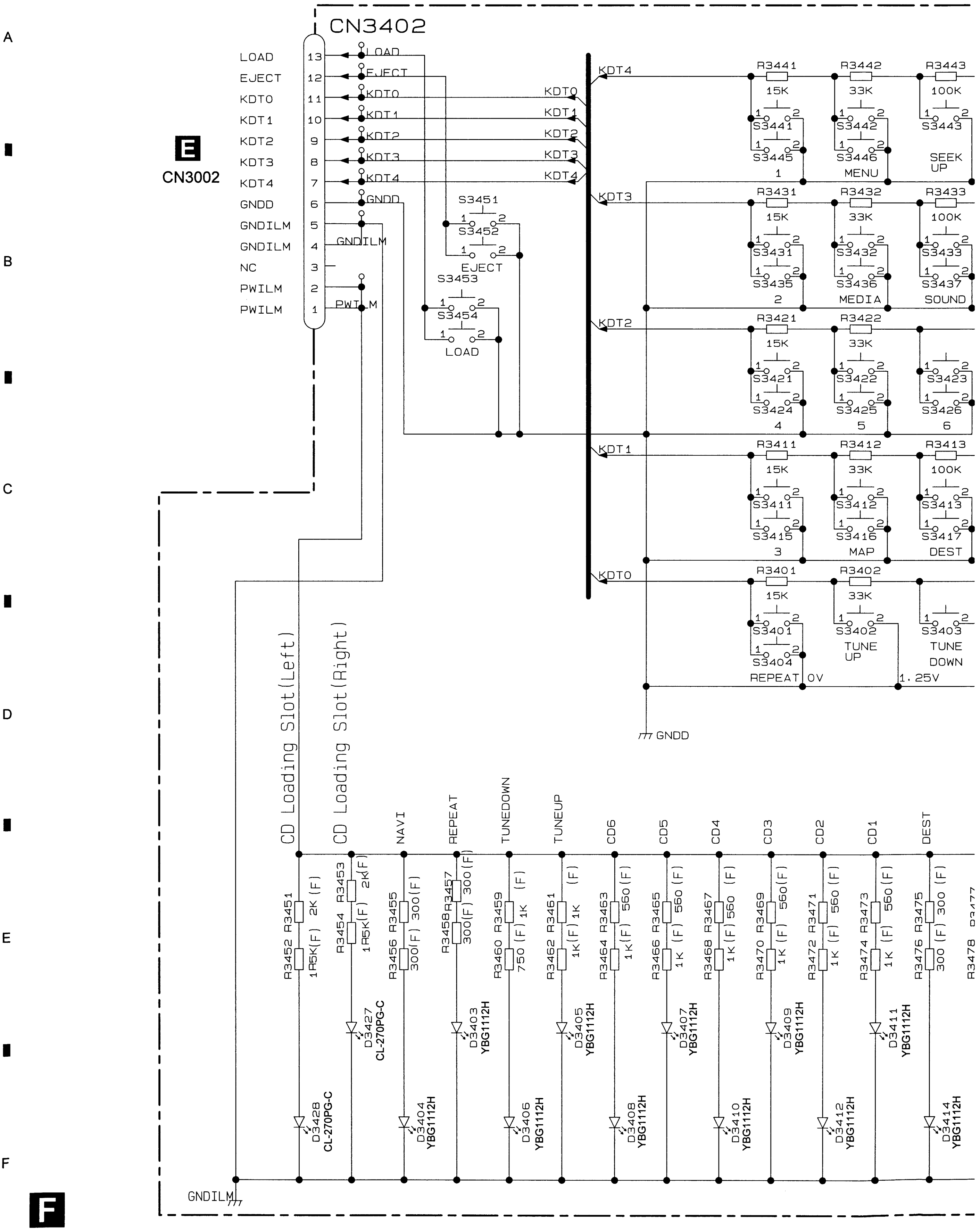

1
2
3
4
A
B
C
D
E
F
TO LCD MODULE
E MONITOR PCB
MONITOR COMPOUND UNIT
Consists of
MONITOR PCB
KEYBOARD PCB
CN3301
FL1
FL2
FL3
FL4
FL5
T3301
IC3304
IC3305
TS8M1
FET1
FET2
IC3303
OZ961ISN
IC3301
TC7SH08FUS1
AND
IC3302
TA78L05F
IC3107
NJM2138V
Q3336
Q3335
Q3337
UMX2N
Q3105
UMZ1N
Q3301
Q3302
Q3303
Q3304
2SC4617
2SA1385-ZS1
Q3306
DTA144EE
D3307
1SS355
D3301
D3302
D3303
D3308
UDZS8R2(B)
D3304
D3306
MA147
D3351
RB751V40
VR3301
CCP1424
L3301
L3127
L3051
+5.0V
FL5V
PWFL
GNDFL
GNDFL1
GNDFL2
MFLPW
GNDV
BST
ENA
BOUT
CSYNC
V8
V332
RGB AMP
E-a
E-b


5
6
7
8
A
B
C
D
E
F
TO LCD MODULE
CN3104
RGB AMP
VCOM AMP
NJM2138V
NJM082BV
IC3106
IC3105
TC7SH08FUS1
AND
TC90A64AF-P
IC3104
X3101
CSS1604
42MHz
UMZ1N
UMX2N
Q3105
Q3106
Q3107
Q3108
Q3109
Q3110
Q3111
Q3112
GOUT
ROUT
BOUT
POL
OSDR
OSDG
OSDB
BLK
PIPCK
PIPOA
OSDV
SCKE
PIPRES
OSDH
VM12
V8
V25
V332
V5
V18

E-a E-b

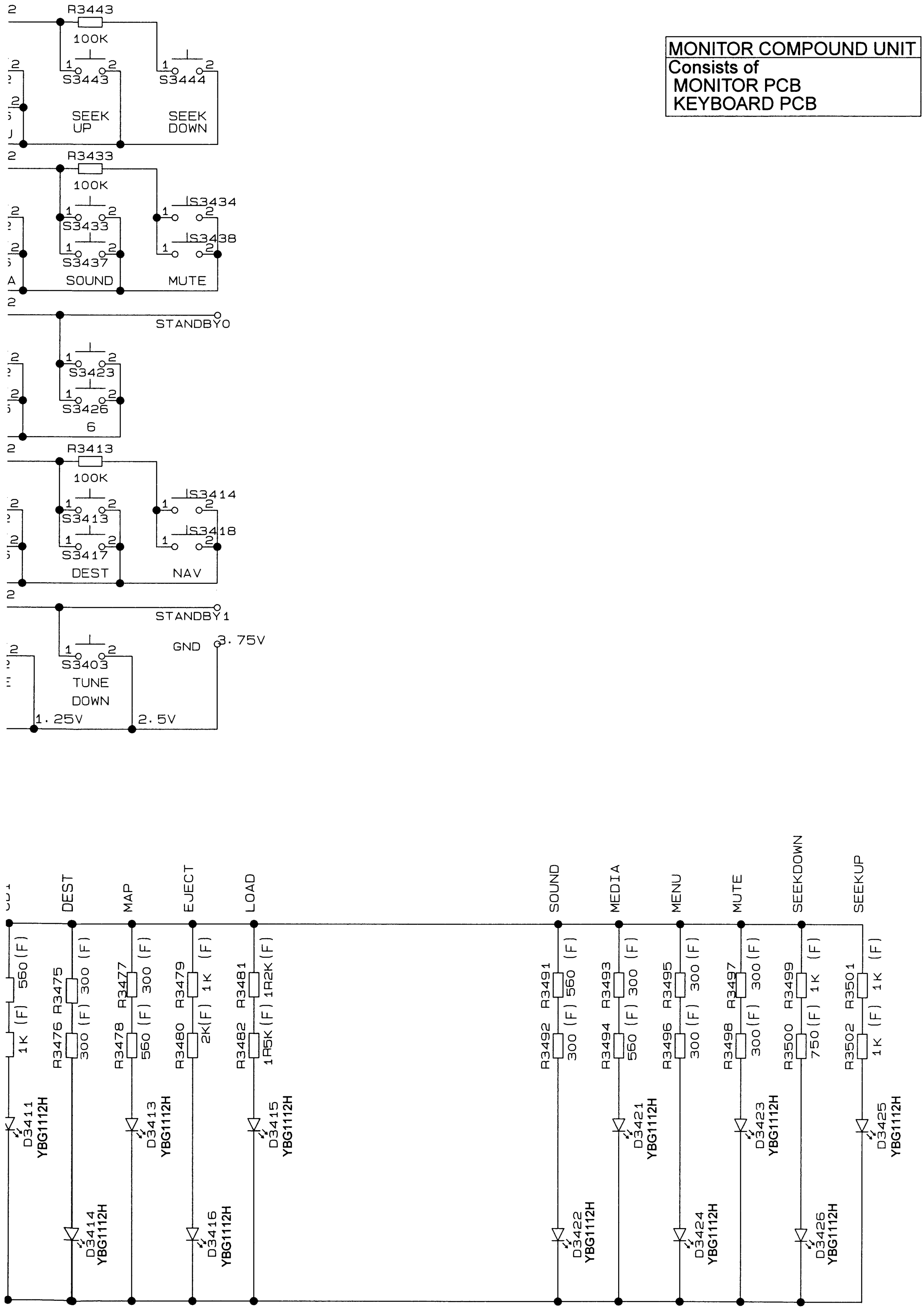
E-b

3.12 KEYBOARD PCB(XD1057ZF,XD1957ZF)


A
B
C
D
E
F
E
CN3002
F
CN3402
LOAD
EJECT
KDT0
KDT1
KDT2
KDT3
KDT4
GNDD
GNDILM
GNDILM
NC
PWILM
PWILM
13
12
11
10
9
8
7
6
5
4
3
2
1
LOAD
EJECT
KDT0
KDT1
KDT2
KDT3
KDT4
GNDD
GNDILM
PWILM
S3451
S3452
EJECT
S3453
S3454
LOAD
KDT4
KDT3
KDT2
KDT1
KDT0
R3441 15K S3441 S3445 1
R3442 33K S3442 S3446 MENU
R3443 100K S3443 SEEK UP
R3431 15K S3431 S3435 2
R3432 33K S3432 S3436 MEDIA
R3433 100K S3433 S3437 SOUND
R3421 15K S3421 S3424 4
R3422 33K S3422 S3425 5
S3423 S3426 6
R3411 15K S3411 S3415 3
R3412 33K S3412 S3416 MAP
R3413 100K S3413 S3417 DEST
R3401 15K S3401 S3404 REPEAT
R3402 33K S3402 TUNE UP
S3403 TUNE DOWN
0V
1.25V
GNDD
CD Loading Slot(Left)
CD Loading Slot(Right)
NAVI
REPEAT
TUNEDOWN
TUNEUP
CD6
CD5
CD4
CD3
CD2
CD1
DEST
R3451 2K (F)
R3452 1R5K(F)
R3453 2K(F)
R3454 1R5K(F)
R3455 300(F)
R3456 300(F)
R3457 300(F)
R3458 300(F)
R3459 1K (F)
R3460 750 (F)
R3461 1K (F)
R3462 1K(F)
R3463 560 (F)
R3464 1K(F)
R3465 560 (F)
R3466 1K (F)
R3467 560 (F)
R3468 1K (F)
R3469 560(F)
R3470 1K (F)
R3471 560 (F)
R3472 1K (F)
R3473 560 (F)
R3474 1K (F)
R3475 300 (F)
R3476 300 (F)
R3477
R3478
D3427 CL-270PG-C
D3428 CL-270PG-C
D3403 YBG1112H
D3404 YBG1112H
D3405 YBG1112H
D3406 YBG1112H
D3407 YBG1112H
D3408 YBG1112H
D3409 YBG1112H
D3410 YBG1112H
D3411 YBG1112H
D3412 YBG1112H
D3414 YBG1112H
GNDILM

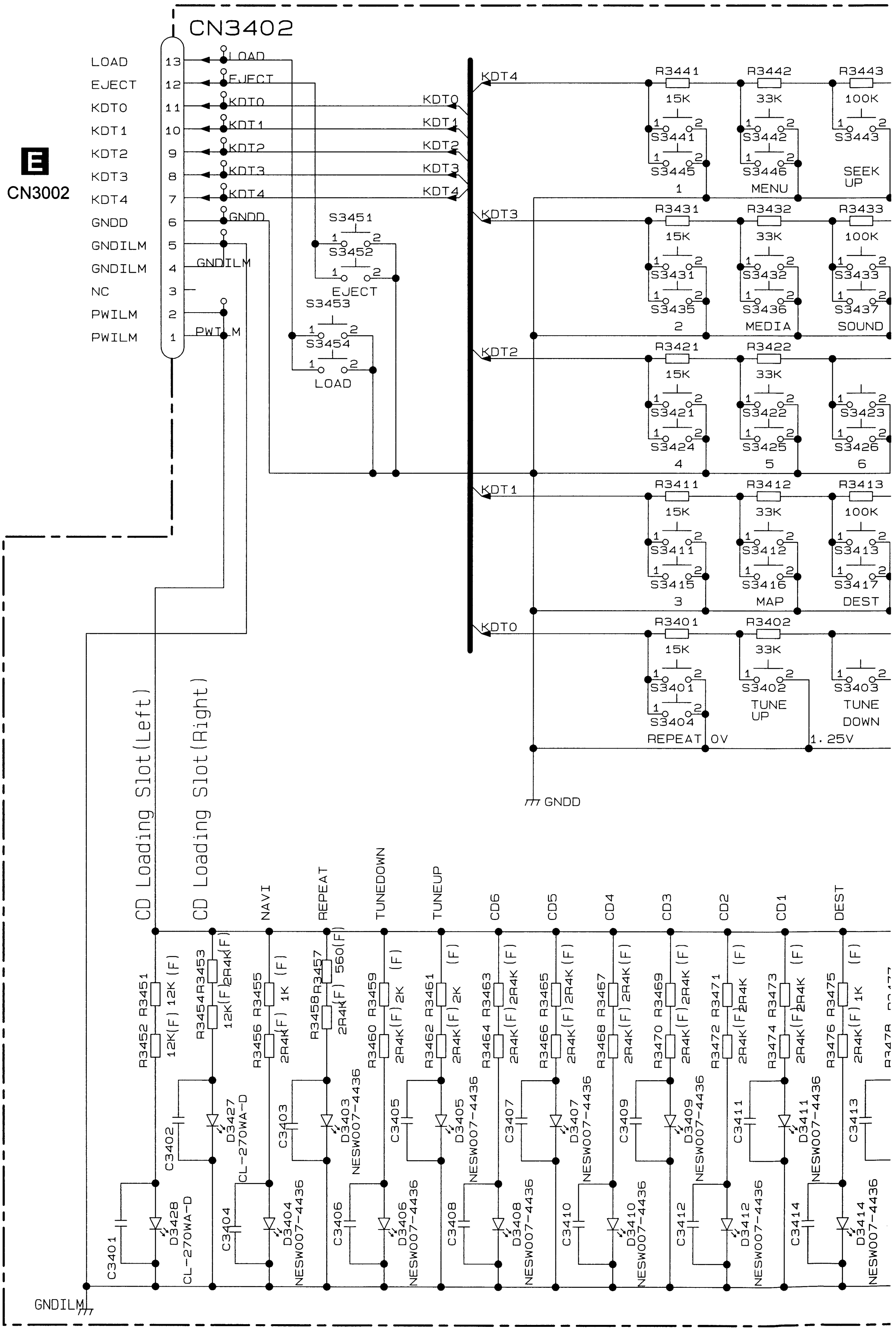
F KEYBOARD PCB

MONITOR COMPOUND UNIT
Consists of MONITOR PCB KEYBOARD PCB



R3443
100K
S3443
S3444
SEEK UP
SEEK DOWN
R3433
100K
S3433
S3437
S3434
S3438
SOUND
MUTE
STANDBY0
S3423
S3426
6
R3413
100K
S3413
S3417
S3414
S3418
DEST
NAV
STANDBY1
S3403
TUNE DOWN
GND
3.75V
1.25V
2.5V
DEST
MAP
EJECT
LOAD
SOUND
MEDIA
MENU
MUTE
SEEKDOWN
SEEKUP
560 (F)
1K (F)
R3475 300 (F)
R3476 300 (F)
R3477 300 (F)
R3478 560 (F)
R3479 1K (F)
R3480 2K (F)
R3481 1R2K (F)
R3482 1R5K (F)
R3491 560 (F)
R3492 300 (F)
R3493 300 (F)
R3494 560 (F)
R3495 300 (F)
R3496 300 (F)
R3497 300 (F)
R3498 300 (F)
R3499 1K (F)
R3500 750 (F)
R3501 1K (F)
R3502 1K (F)
D3411 YBG1112H
D3413 YBG1112H
D3415 YBG1112H
D3414 YBG1112H
D3416 YBG1112H
D3421 YBG1112H
D3422 YBG1112H
D3423 YBG1112H
D3424 YBG1112H
D3425 YBG1112H
D3426 YBG1112H

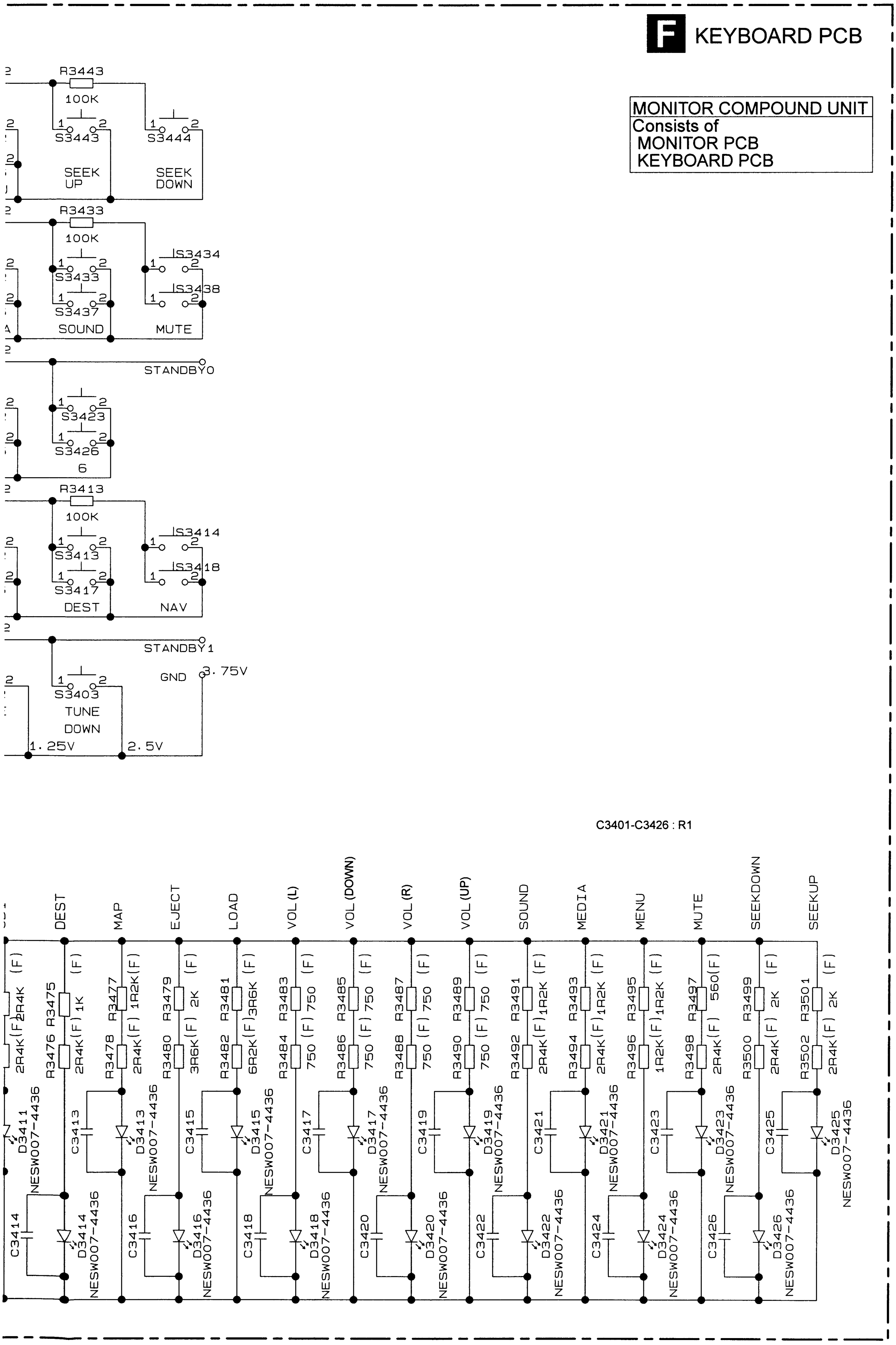
3.13 KEYBOARD PCB(XD1557ZF)



CN3402
E
CN3002
LOAD 13
EJECT 12
KDT0 11
KDT1 10
KDT2 9
KDT3 8
KDT4 7
GNDD 6
GNDILM 5
GNDILM 4
NC 3
PWILM 2
PWILM 1
LOAD
EJECT
KDT0
KDT1
KDT2
KDT3
KDT4
GNDD
GNDILM
PWILM
S3451
S3452
EJECT
S3453
S3454
LOAD
KDT4
R3441 15K
R3442 33K
R3443 100K
S3441
S3445
1
S3442
S3446
MENU
S3443
SEEK UP
KDT3
R3431 15K
R3432 33K
R3433 100K
S3431
S3435
2
S3432
S3436
MEDIA
S3433
S3437
SOUND
KDT2
R3421 15K
R3422 33K
S3421
S3424
4
S3422
S3425
5
S3423
S3426
6
KDT1
R3411 15K
R3412 33K
R3413 100K
S3411
S3415
3
S3412
S3416
MAP
S3413
S3417
DEST
KDT0
R3401 15K
R3402 33K
S3401
S3404
REPEAT
0V
S3402
TUNE UP
1.25V
S3403
TUNE DOWN
GNDD
CD Loading Slot(Left)
CD Loading Slot(Right)
NAVI
REPEAT
TUNEDOWN
TUNEUP
CD6
CD5
CD4
CD3
CD2
CD1
DEST
R3452 R3451 12K(F) 12K(F)
R3454 R3453 12K(F) 2R4K(F)
R3456 R3455 2R4K(F) 1K(F)
R3458 R3457 2R4K(F) 560(F)
R3460 R3459 2R4K(F) 2K(F)
R3462 R3461 2R4K(F) 2K(F)
R3464 R3463 2R4K(F) 2R4K(F)
R3466 R3465 2R4K(F) 2R4K(F)
R3468 R3467 2R4K(F) 2R4K(F)
R3470 R3469 2R4K(F) 2R4K(F)
R3472 R3471 2R4K(F) 2R4K(F)
R3474 R3473 2R4K(F) 2R4K(F)
R3476 R3475 2R4K(F) 1K(F)
R3478 R3477
C3401
D3428 CL-270WA-D
C3402
D3427 CL-270WA-D
C3403
D3403 NESW007-4436
C3404
D3404 NESW007-4436
C3405
D3405 NESW007-4436
C3406
D3406 NESW007-4436
C3407
D3407 NESW007-4436
C3408
D3408 NESW007-4436
C3409
D3409 NESW007-4436
C3410
D3410 NESW007-4436
C3411
D3411 NESW007-4436
C3412
D3412 NESW007-4436
C3413
C3414
D3414 NESW007-4436
GNDILM

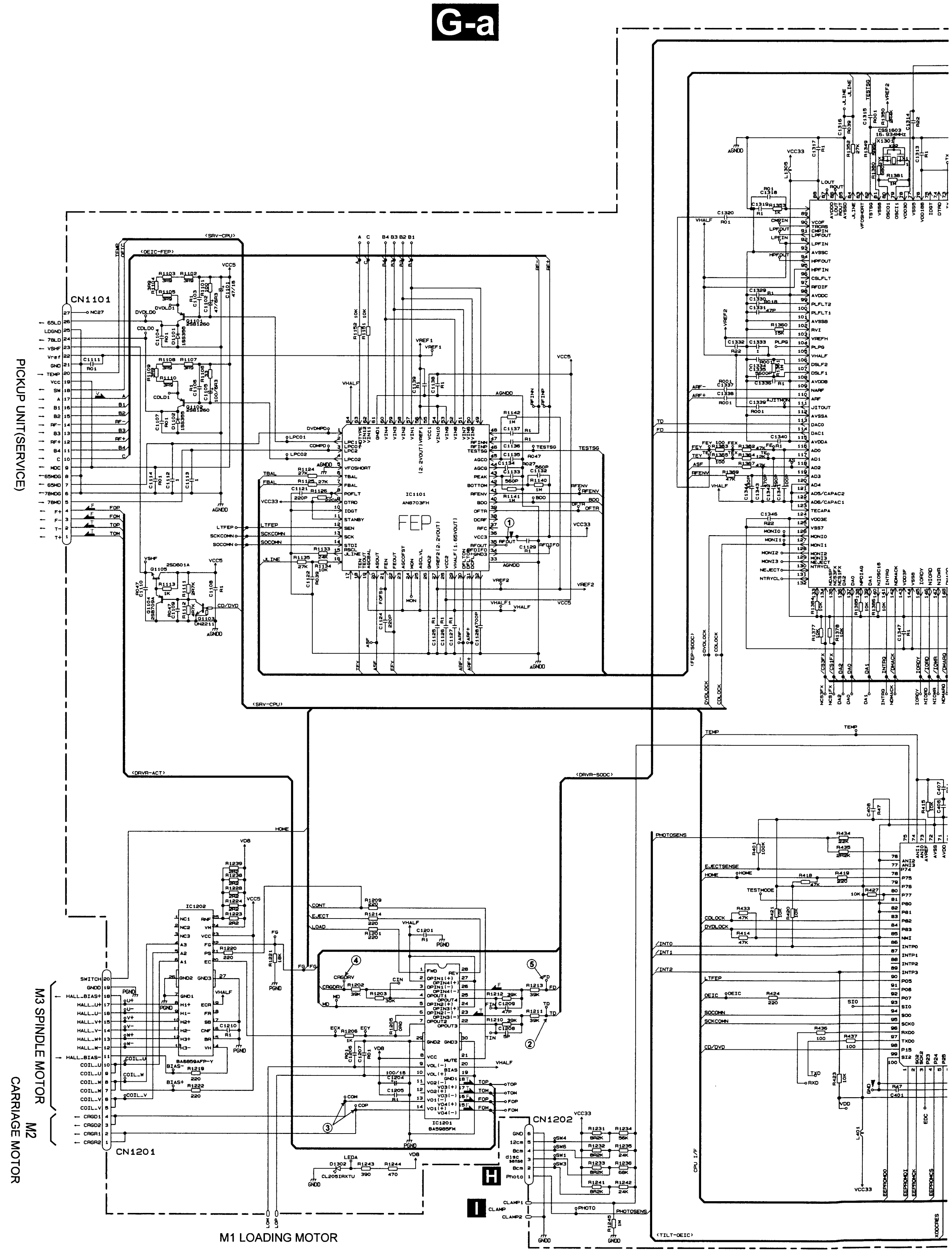
F KEYBOARD PCB

MONITOR COMPOUND UNIT
Consists of MONITOR PCB KEYBOARD PCB

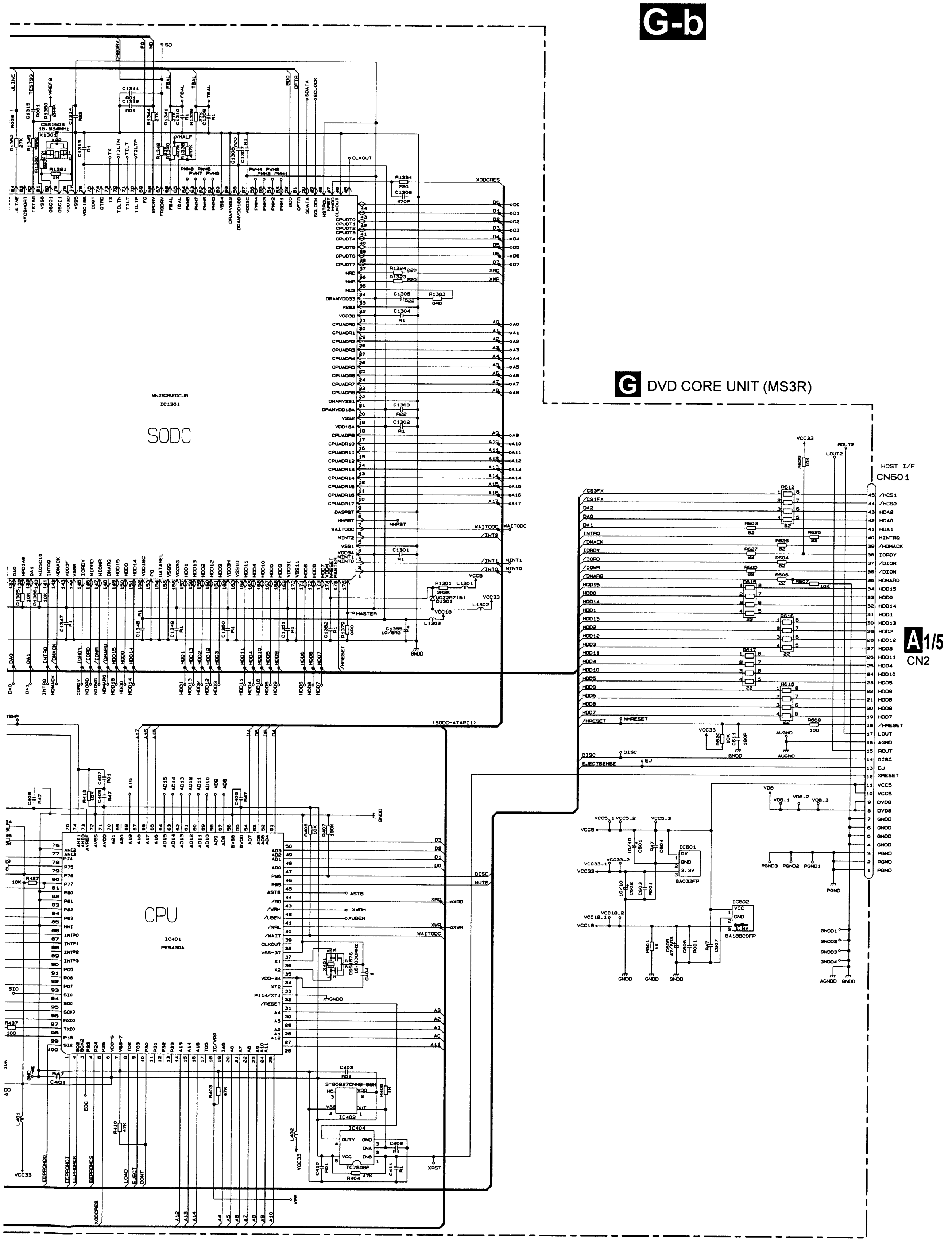

R3443
100K
S3443
S3444
SEEK UP
SEEK DOWN
R3433
100K
S3433
S3434
S3437
S3438
SOUND
MUTE
STANDBY0
S3423
S3426
6
R3413
100K
S3413
S3414
S3417
S3418
DEST
NAV
STANDBY1
GND
3.75V
S3403
TUNE DOWN
1.25V
2.5V
DEST
MAP
EJECT
LOAD
VOL (L)
VOL (DOWN)
VOL (R)
VOL (UP)
SOUND
MEDIA
MENU
MUTE
SEEKDOWN
SEEKUP
R3475 1K (F)
R3476 2R4K (F)
R3477 1R2K (F)
R3478 2R4K (F)
R3479 2K (F)
R3480 3R6K (F)
R3481 3R6K (F)
R3482 6R2K (F)
R3483 750 (F)
R3484 750 (F)
R3485 750 (F)
R3486 750 (F)
R3487 750 (F)
R3488 750 (F)
R3489 750 (F)
R3490 750 (F)
R3491 1R2K (F)
R3492 2R4K (F)
R3493 1R2K (F)
R3494 2R4K (F)
R3495 1R2K (F)
R3496 1R2K (F)
R3497 560 (F)
R3498 2R4K (F)
R3499 2K (F)
R3500 2R4K (F)
R3501 2K (F)
R3502 2R4K (F)
2R4K (F)
D3411 NESW007-4436
D3413 NESW007-4436
D3414 NESW007-4436
D3415 NESW007-4436
D3416 NESW007-4436
D3417 NESW007-4436
D3418 NESW007-4436
D3419 NESW007-4436
D3420 NESW007-4436
D3421 NESW007-4436
D3422 NESW007-4436
D3423 NESW007-4436
D3424 NESW007-4436
D3425 NESW007-4436
D3426 NESW007-4436
C3413
C3414
C3415
C3416
C3417
C3418
C3419
C3420
C3421
C3422
C3423
C3424
C3425
C3426

C3401-C3426 : R1

3.14 DVD CORE UNIT(MS3R)(GUIDE PAGE)


G-a
PICKUP UNIT(SERVICE)
CN1101
(SRV-CPU)
(OEIC-FEP)
Q1101 2SB1260
Q1102 2SB1260
D1101 1SS355
D1102 1SS355
Q1105 2SD601A
Q1104 2SB709A
Q1103 DN2211
IC1101
AN8703FH
FEP
(DRVR-ACT)
(DRVR-SODC)
IC1202
BA6859AFP-Y
IC1201
BA5985FM
CN1201
CN1202
M3 SPINDLE MOTOR
M2 CARRIAGE MOTOR
M1 LOADING MOTOR
LEDA
D1302
CL205IRXTU
H
I
CLAMP1
CLAMP
CLAMP2
PHOTOSENS
(TILT-OEIC)
(FEP-SODC)
CPU I/F
DVDLOCK
CDLOCK
TEMP
PHOTOSENS
EJECTSENSE
HOME
TESTMODE
VCC33
VHALF
VCC5
VDD
AGNDD
PGND
GNDD
①
②
③
④
⑤

G-b


G DVD CORE UNIT (MS3R)
SODC
HMZS26EDCUB
IC1301
CPU
IC401
PE5430A
HOST I/F
CN601
A1/5
CN2
IC501
BA033FP
IC502
BA18BC0FP
IC402
S-80827CNNB-B8K
IC404
TC7S08F
CSS1603 16.934MHz
X1301
X401
(SODC-ATAPI1)
MASTER
NHRESET
XODCRES
CLKOUT
VCC33
VCC5
VCC18
GNDD
AGND
PGND
XRST
/HCS1
/HCS0
HDA2
HDA0
HDA1
HINTRQ
/HDMACK
IORDY
/DIOR
/DIOW
HDMARQ
/HRESET
LOUT
ROUT
DISC
EJ
XRESET
DVD8
SD
FG
MD
SDATA
SCLOCK
VPP
EEPROMDO
EEPROMDI
EEPROMCK
EEPROMCS
LOAD
EJECT
CONT
TEMP
SIO

A
B
C
D
E
F

G

A

G-b

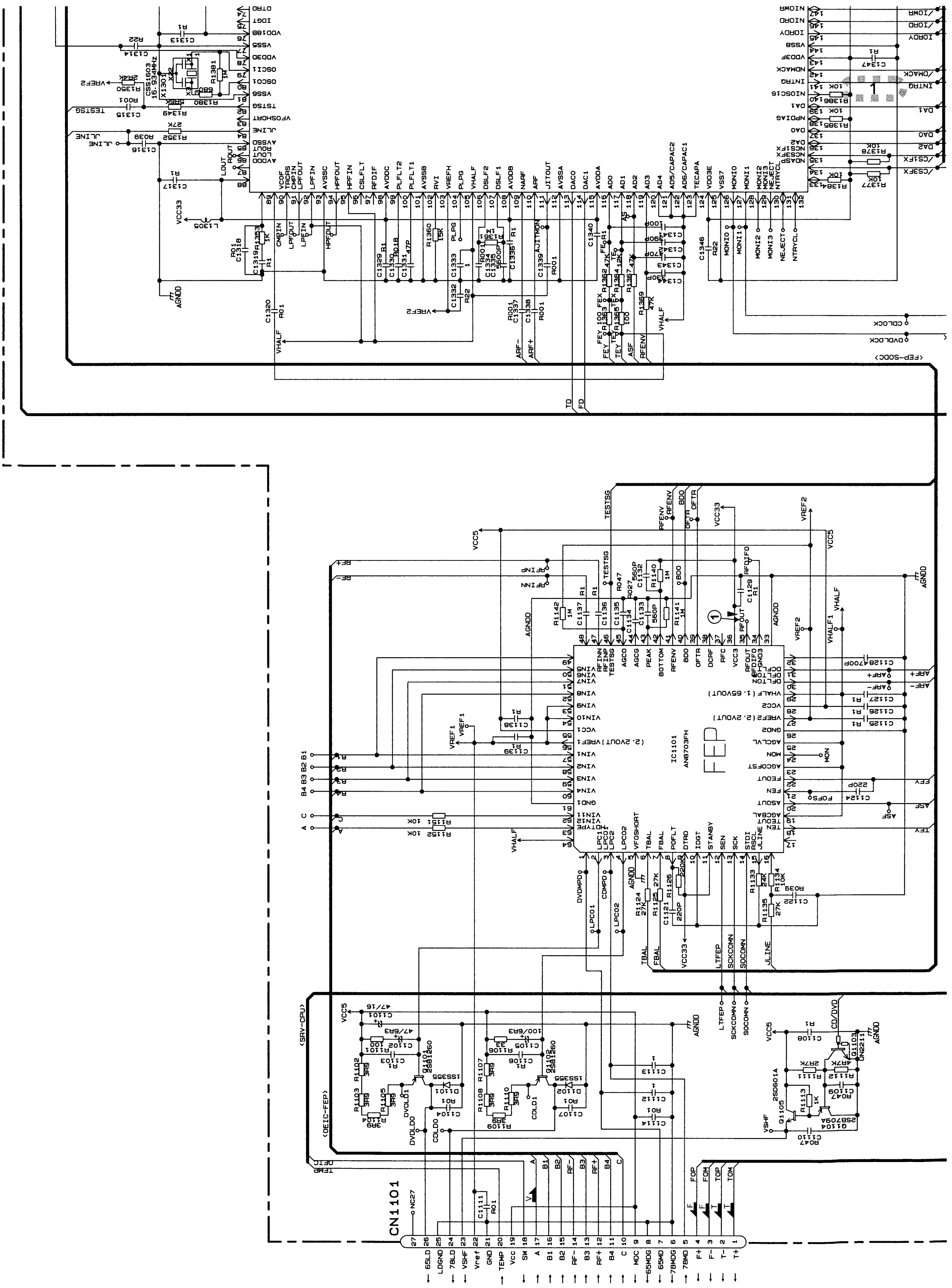
B

C

D

E

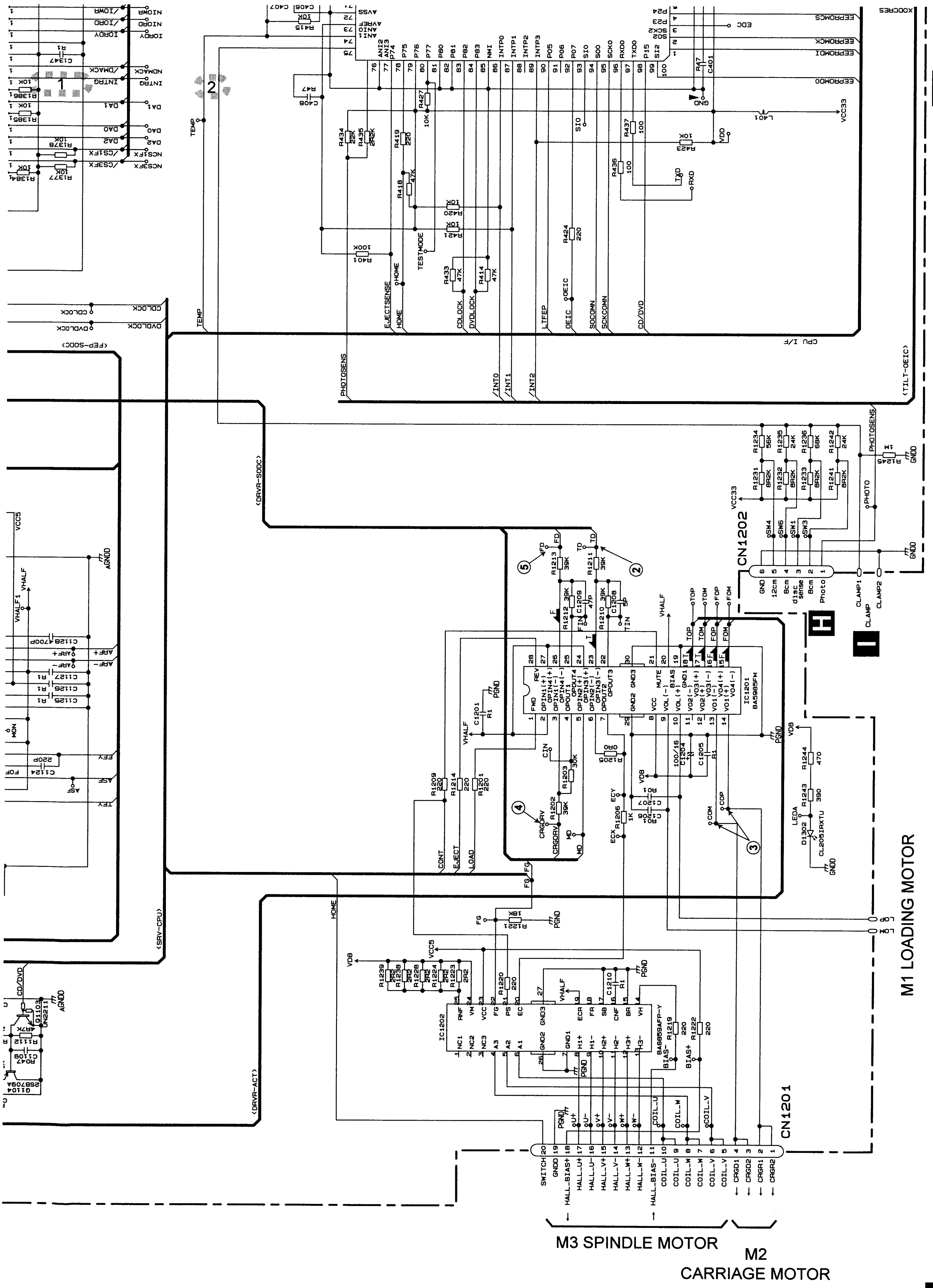
F


IC1101
AN8703FH
FEP
CN1101
NC27
65LD
LDGND
78LD
VSHF
Vref
GND
TEMP
Vcc
SW
A
B1
B2
RF-
B3
RF+
B4
C
MDC
65MDG
65MD
78MDG
78MD
F+
F-
T-
T+
FOP
FOM
TOP
TOM
VCC5
VCC33
AGNDD
VHALF
VREF1
VREF2
LTFEP
SCKCOMN
SOCOMN
JLINE
TBAL
FBAL
DVDMPD
CDMPD
LPCO1
LPCO2
DVDLD0
CDLD0
Q1101
2SB1260
Q1102
2SB1260
D1101
1SS355
D1102
1SS355
Q1105
2SD601A
Q1104
2SB709A
Q1103
DN2211
CD/DVD
RFENV
BDO
OFTR
TESTSG
RFINP
RFINN
ARF+
ARF-
FEY
FEX
TEY
TEX
ASF
TD
FD
CDLOCK
DVDLOCK
<FEP-SODC>
<SRV-CPU>
<OEIC-FEP>
OEIC
TEMP
MONI0
MONI1
MONI2
MONI3
NEJECT
NTRYCL
/IOWR
/IORD
IORDY
/DMACK
INTRQ
DA1
DA0
DA2
/CS1FX
/CS3FX

PICKUP UNIT(SERVICE)

G-b
G-a

G-a


CPU I/F
(TILT-OEIC)
(FEP-SODC)
(DRVR-SODC)
(SRV-CPU)
(DRVR-ACT)
PHOTOSENS
TEMP
EJECTSENSE
HOME
TESTMODE
CDLOCK
DVDLOCK
/INT0
/INT1
/INT2
LTFEP
OEIC
SDCOMN
SCKCOMN
CD/DVD
EEPROMCS
EEPROMCK
EEPROMDI
EEPROMDO
VCC33
VDD
TXD
RXD
CN1202
GND
12cm
8cm
disc sense
8cm
Photo
CLAMP1
CLAMP
CLAMP2
H
I
IC1201
BA5985FM
VHALF
VDB
PGND
AGNDD
TOP
TOM
FOP
FOM
CONT
EJECT
LOAD
CRGDRV
ECX
ECY
COM
COP
FG
VCC5
IC1202
BA6859AFP-Y
LEDA
D1302
CL205IRXTU
LOP
LOM
M1 LOADING MOTOR
CN1201
SWITCH
GNDD
HALL_BIAS+
HALL_U+
HALL_U-
HALL_V+
HALL_V-
HALL_W+
HALL_W-
HALL_BIAS-
COIL_U
COIL_W
COIL_V
CRGD1
CRGD2
CRGR1
CRGR2
M3 SPINDLE MOTOR
M2
CARRIAGE MOTOR
1
2
3
4
5

1 2 3 4

A

B

C

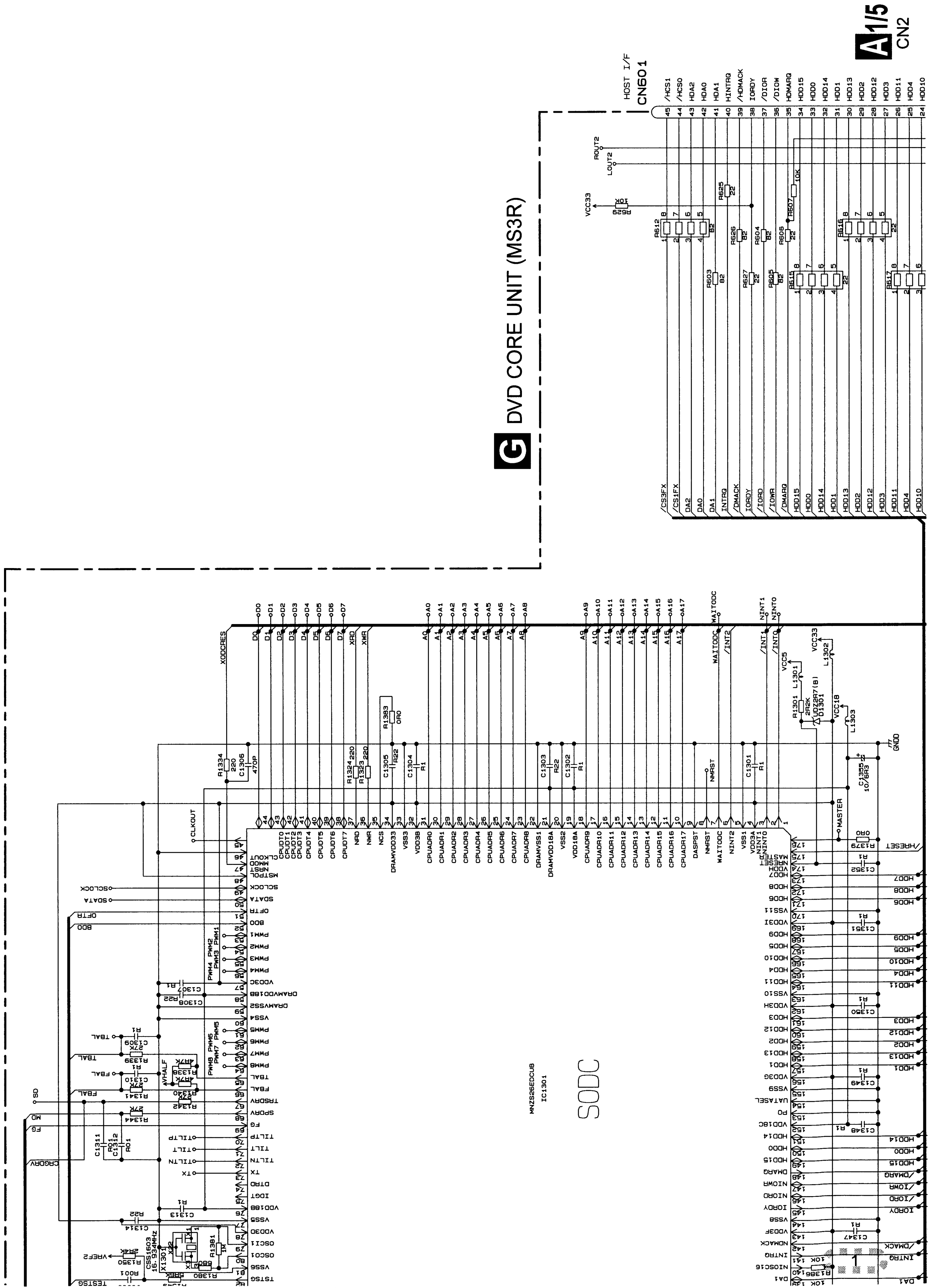
G-a G-b

D

E

F

G-b

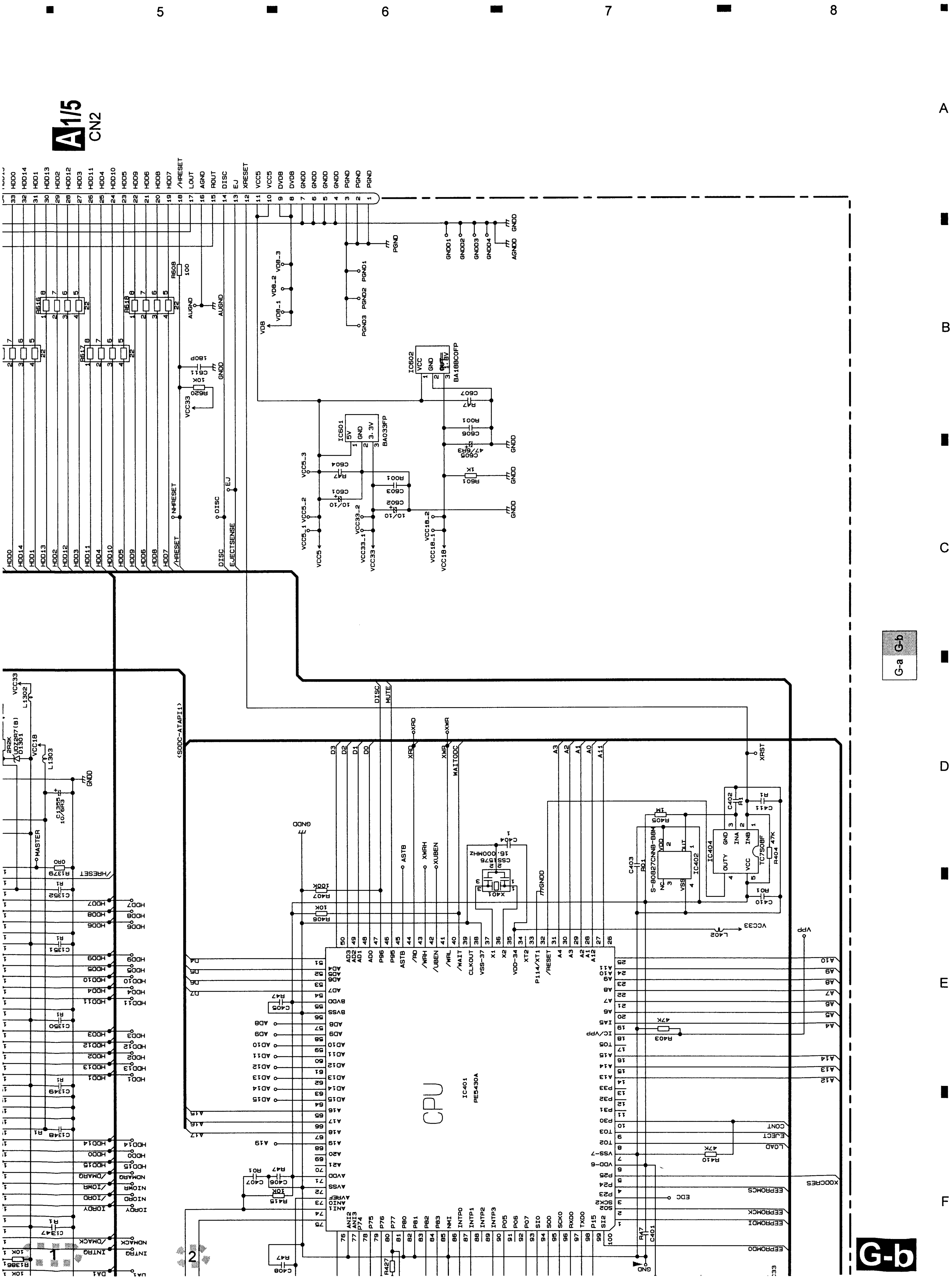


G DVD CORE UNIT (MS3R)
A 1/5 CN2
HOST I/F
CN601
/HCS1
/HCS0
HDA2
HDA0
HDA1
HINTRQ
/HDMACK
IORDY
/DIOR
/DIOW
HDMARQ
HDD15
HDD0
HDD14
HDD1
HDD13
HDD2
HDD12
HDD3
HDD11
HDD4
HDD10
ROUT2
LOUT2
VCC33
R629 10K
R612
R616
R615
R617
R603
R604
R605
R606
R607
R625
R626
R627
/CS3FX
/CS1FX
DA2
DA0
DA1
INTRQ
/DMACK
IORDY
/IORD
/IOWR
/DMARQ
IC1301
MN2S26EDCUB
SODC
XDDCRES
D0
D1
D2
D3
D4
D5
D6
D7
XRD
XWR
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
A16
A17
WAITODC
/INT2
/INT1
/INT0
NINT1
NINT0
VCC5
VCC33
VCC18
L1301
L1302
L1303
R1301 2.2K
UDZS27(B)
D1301
GNDD
C1355 10/6.3
R1379 0R0
MASTER
/HRESET
R1383 0R0
R1334 220
C1306 470P
R1324 220
R1323 220
C1305 R22
C1304 R1
C1303 R22
C1302 R1
C1301 R1
NMRST
CLKOUT
SCLOCK
SDATA
OFTR
BDO
PWM1
PWM2
PWM3
PWM4
PWM5
PWM6
PWM7
PWM8
TBAL
FBAL
SD
MD
FG
CRGDRV
TILTP
TILT
TILTN
TX
VREF2
TESTSG
X1301
CSS1603
16.934MHz
R1381
R1380
R1350
C1314 R22
C1313 R1
C1311
C1312 R01
C1307 R1
C1308 R22
C1309 R1
C1310 R1
R1339 27K
R1341 27K
R1344 27K
R1340
R1342
R1338 4.7K
VHALF
C1347 R1
C1348 R1
C1349 R1
C1350 R1
C1351 R1
C1352 R1
R1386 10K
HDD7
HDD8
HDD6
HDD9
HDD5
DA1

84

AVIC-XD1057ZF/UC

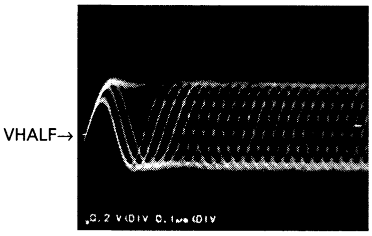
1 2 3 4


5
6
7
8
A
B
C
D
E
F
A 1/5
CN2
HDD0
HDD14
HDD1
HDD13
HDD2
HDD12
HDD3
HDD11
HDD4
HDD10
HDD5
HDD9
HDD6
HDD8
HDD7
/HRESET
LOUT
AGND
ROUT
DISC
EJ
XRESET
VCC5
DVDB
GNDD
PGND
IC601
BA033FP
IC602
BA18BC0FP
VCC5
VCC33
VCC18
EJECTSENSE
(SODC-ATAPI1)
DISC
MUTE
XRD
XWR
WAITODC
XRST
IC401
PE5430A
CPU
X401
CSS1576
16.000MHz
IC402
S-80827CNNB-B8M
IC404
TC7S08F
VCC33
VPP
CONT
EJECT
LOAD
XODCRES
EEPROMCS
EEPROMCK
EEPROMDI
EEPROMDO
EDC
GND
G-a G-b
G-b

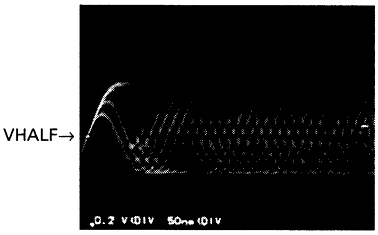
● Waveforms

Note:1. The encircled number denote measuring pointes in the circuit diagram.
2. Reference voltage VHALF : 1.65V(TD1,FD1,CRGDRV)
: 2V Center(ANAMONI1)
In this waveform, it is seeing on the GND standard.
Offset of 1.65V or 2V is put in.

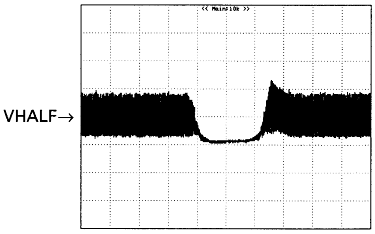
① RFOUT 0.2V/div. 0.1μs/div.
CDRF



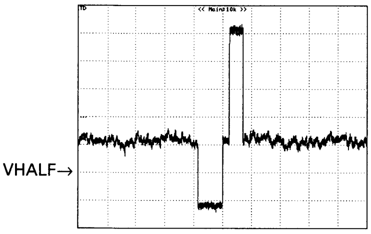
① RFOUT 0.2V/div. 0.1μs/div.
DVDRF



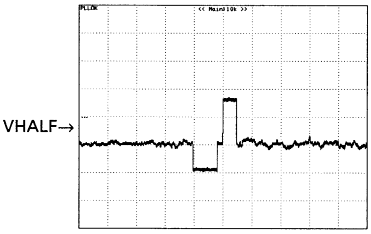
① RFOUT 0.5V/div. 100μs/div.
DVDRF(BD1mm)



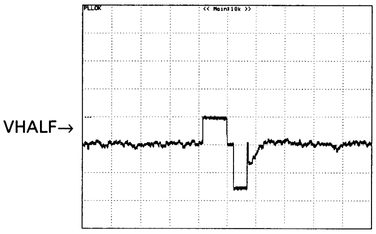
② TD 0.2V/div. 100μs/div.
Interval



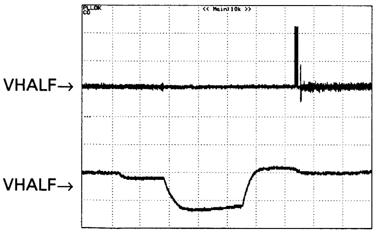
② TD 0.5V/div. 100μs/div.
Interval FWD



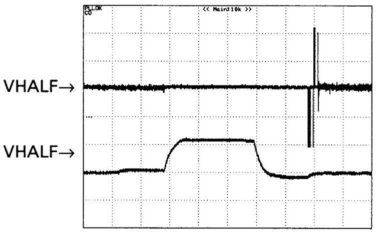
② TD 0.5V/div. 100μs/div.
Interval REV



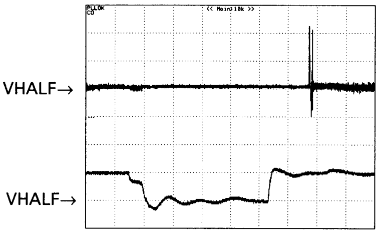
② CH1: TD 0.5V/div.5ms/div.
③ CH2: COP-COM 2.0V/div.5ms/div.
Traverse501FWD



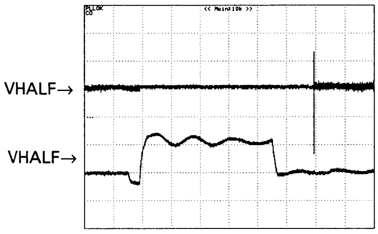
② CH1: TD 0.5V/div.5ms/div.
③ CH2: COP-COM 2.0V/div.5ms/div.
Traverse501REV



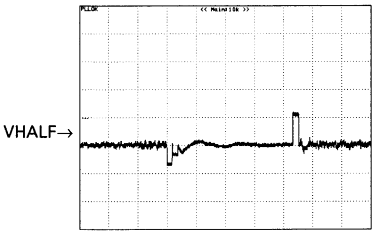
② CH1: TD 0.5V/div.5ms/div.
③ CH2: COP-COM 2.0V/div.5ms/div.
Traverse5000FWD



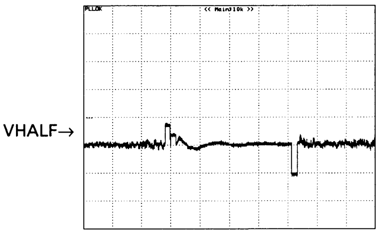
② CH1: TD 0.5V/div.5ms/div.
③ CH2: COP-COM 2.0V/div.5ms/div.
Traverse5000REV



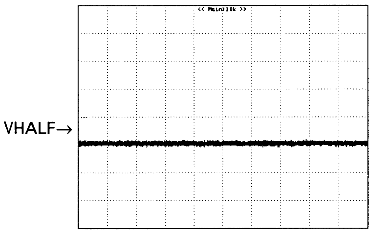
② TD 0.5V/div.500µs/div.
Multi 32FWD



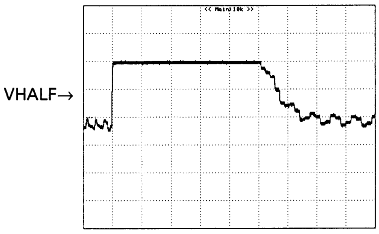
② TD 0.5V/div.500µs/div.
Multi 32REV



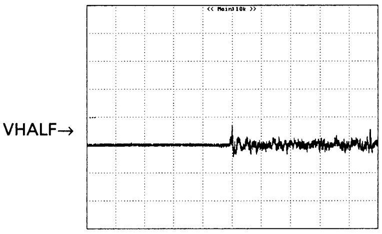
② TD 0.5V/div.20ms/div.
Play TD



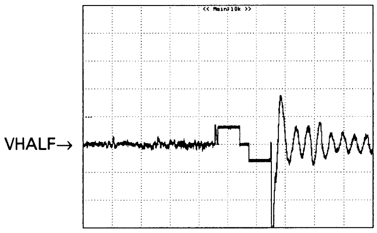
④ CRGPRV 0.5V/div. 100µs/div.
ID search Insaide → Outside



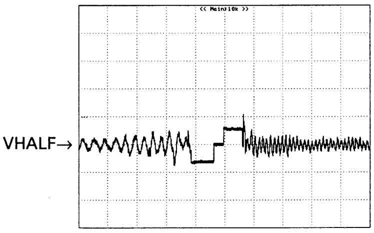
⑤ FD 0.5V/div. 1ms/div.
Focus close



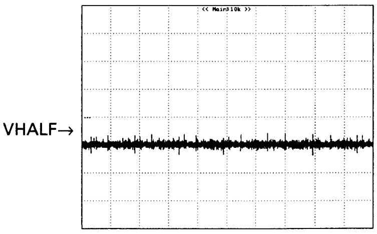
⑤ FD 0.5V/div.500µs/div.
Focus jamp L 0 → L1



⑤ FD 0.5V/div.500µs/div.
Focus jamp L1 → L 0

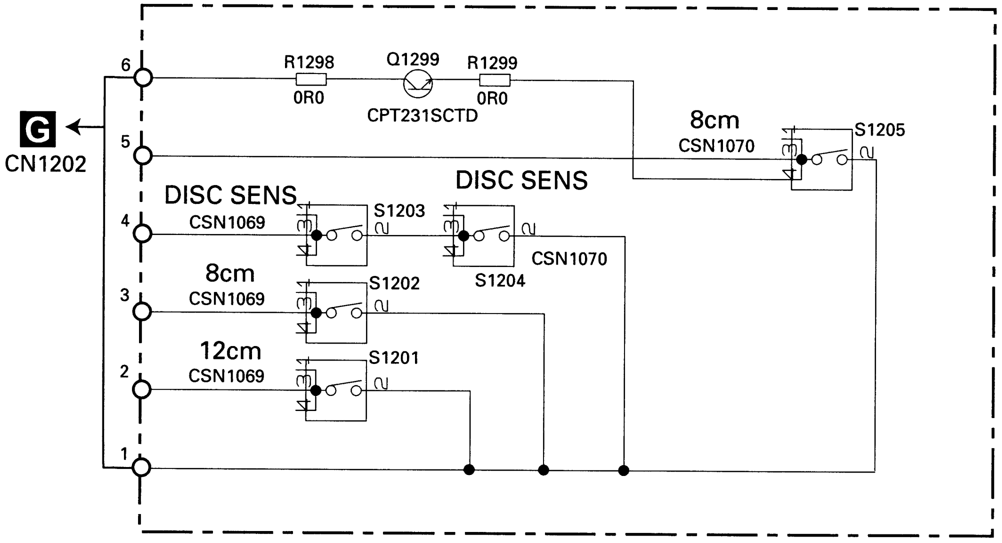


⑤ FD 0.5V/div.20ms/div.
Play TD

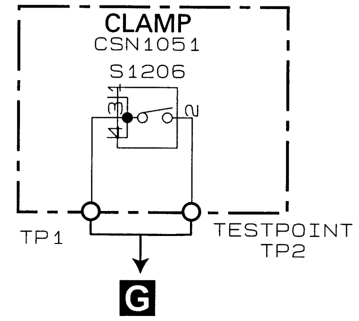


3.15 COMPOUND UNIT(A) AND COMPOUND UNIT(B)

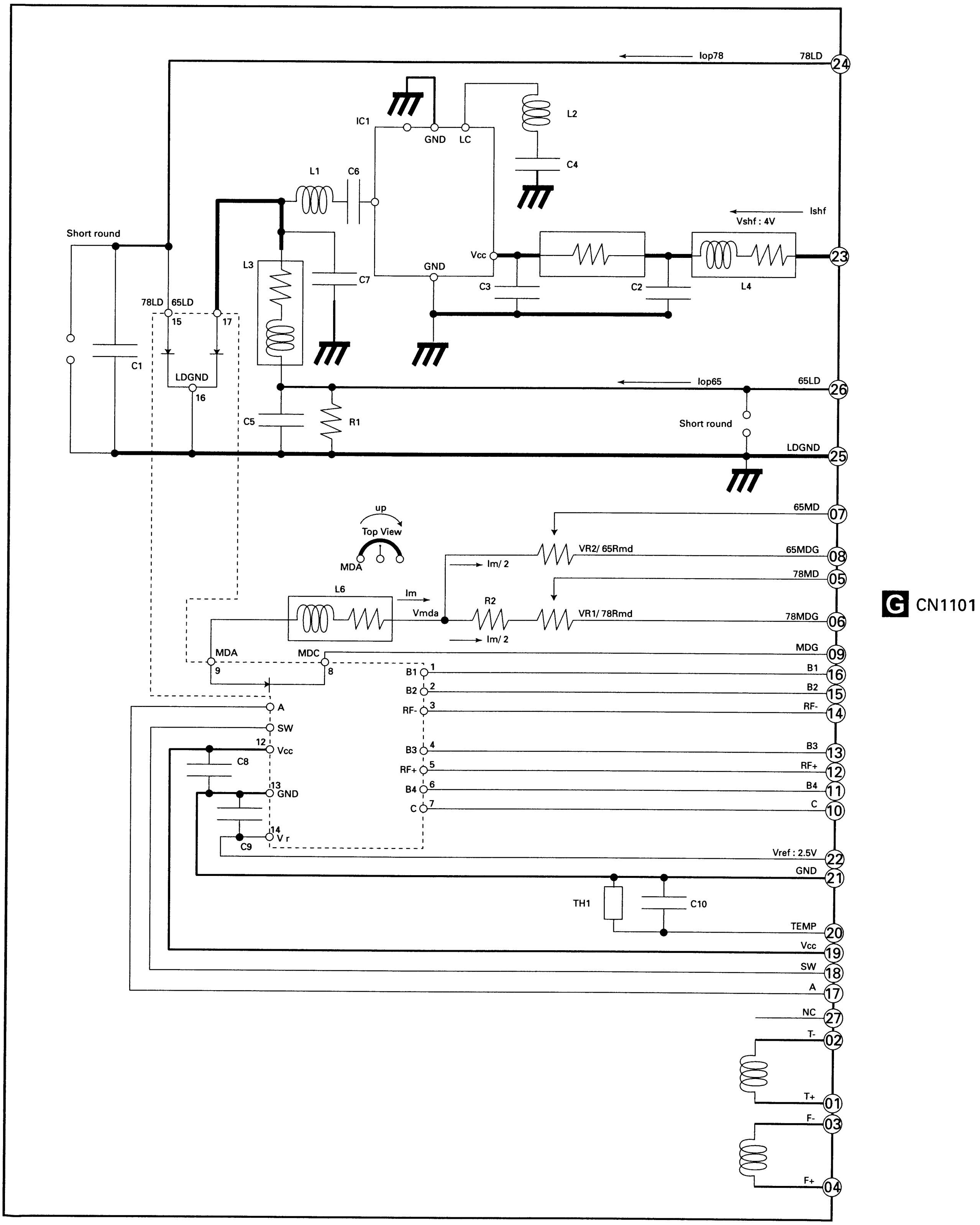
H COMPOUND UNIT(A)


6
5
4
3
2
1
R1298
0R0
Q1299
CPT231SCTD
R1299
0R0
8cm
CSN1070
S1205
G
CN1202
DISC SENS
CSN1069
S1203
DISC SENS
S1204
CSN1070
8cm
CSN1069
S1202
12cm
CSN1069
S1201

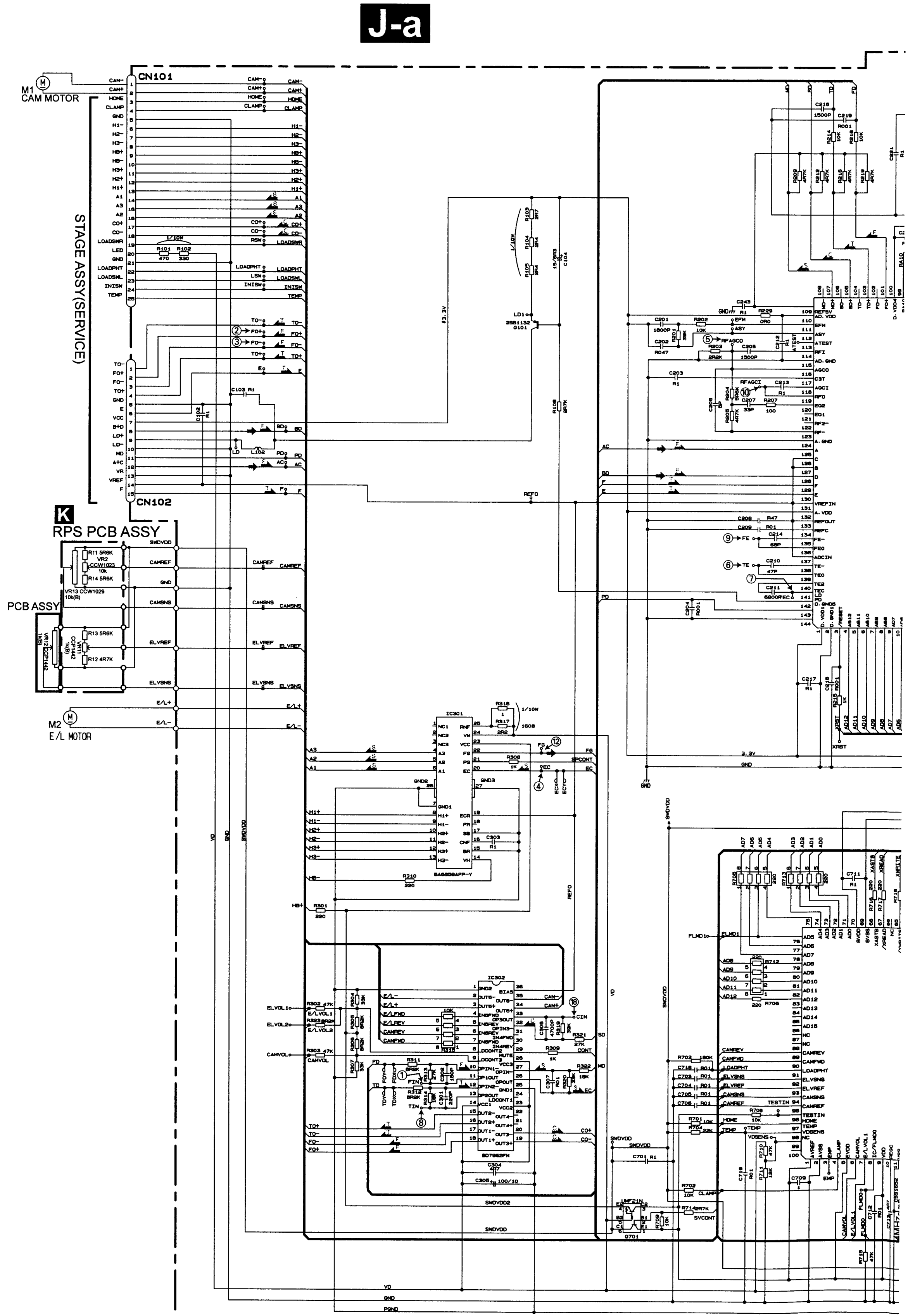
I COMPOUND UNIT(B)


CLAMP
CSN1051
S1206
TP1
TESTPOINT
TP2
G

3.16 PU UNIT(REFERENCE)

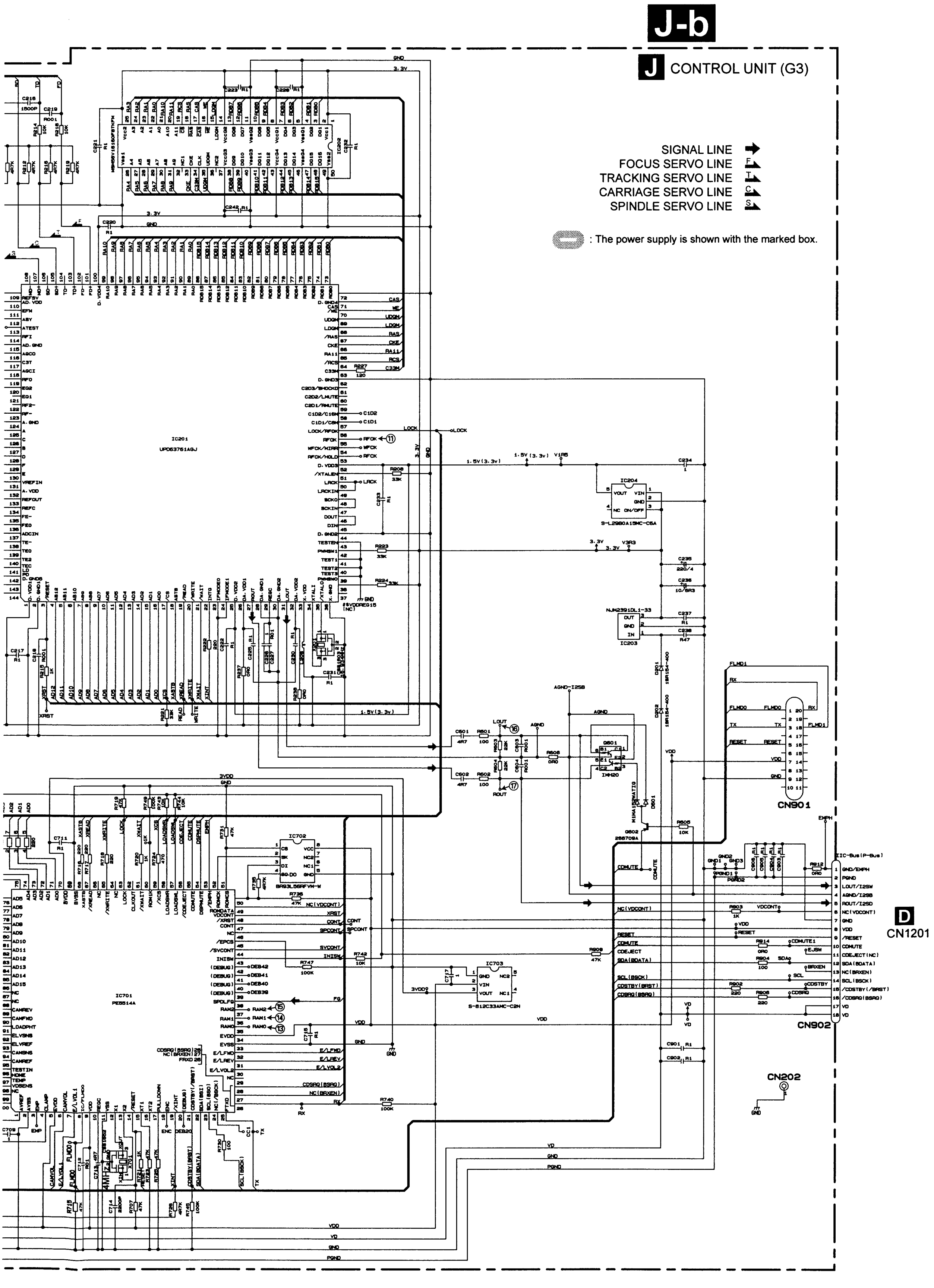

Iop78
78LD
24
IC1
GND
LC
L2
C4
L1
C6
Ishf
Vshf : 4V
Short round
Vcc
GND
23
L3
C7
C3
C2
L4
78LD
65LD
15
17
C1
LDGND
16
Iop65
65LD
26
C5
R1
Short round
LDGND
25
up
Top View
MDA
65MD
07
VR2/ 65Rmd
65MDG
08
Im/ 2
78MD
05
L6
Im
Vmda
R2
VR1/ 78Rmd
78MDG
06
Im/ 2
MDA
9
MDC
8
MDG
09
B1
1
B1
16
B2
2
B2
15
RF-
3
RF-
14
A
SW
12
Vcc
C8
B3
4
B3
13
RF+
5
RF+
12
13
GND
B4
6
B4
11
C
7
C
10
14
V r
C9
Vref : 2.5V
22
GND
21
TH1
C10
TEMP
20
Vcc
19
SW
18
A
17
NC
27
T-
02
T+
01
F-
03
F+
04
G
CN1101

3.17 CD MECHANISM MODULE(GUIDE PAGE)


J-a
CN101
M1 CAM MOTOR
STAGE ASSY(SERVICE)
CN102
K
RPS PCB ASSY
PCB ASSY
VR2 CCW1021 10k
VR13 CCW1029 10k(B)
VR12 CCP1442 1k(B)
VR11 CCP1442 1k(B)
M2 E/L MOTOR
LD1
2SB1132
Q101
IC301
BA6859AFP-Y
IC302
BD7962FH
UMF21N
Q701
VD
GND
PGND
SWDVDD
SWDVDD2
3.3V
REFO
FLMD1
CAMVOL
ELVOL1
ELVOL2

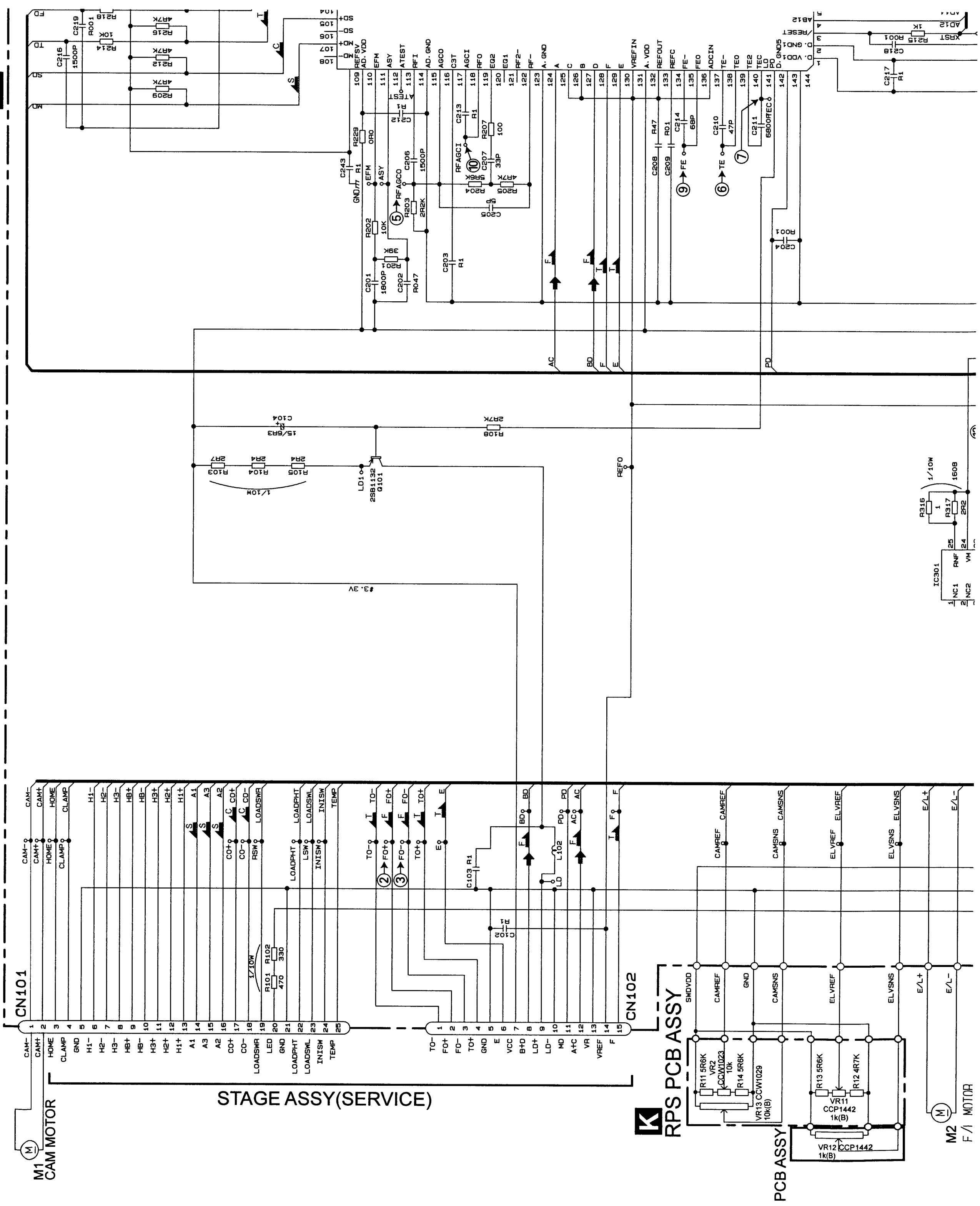
J-b

J CONTROL UNIT (G3)


SIGNAL LINE
FOCUS SERVO LINE
TRACKING SERVO LINE
CARRIAGE SERVO LINE
SPINDLE SERVO LINE
: The power supply is shown with the marked box.
IC201
UPD63761AGJ
IC202
IC203
IC204
S-L2980A15MC-C6A
NJM2391DL1-33
IC701
PE5514A
IC702
BR93L56RFVM-W
IC703
S-812C33AMC-C2N
Q601
IMH20
Q602
2SB709A
D601
CN901
CN902
D
CN1201
CN202
A
B
C
D
E
F
J

A

J-b


CN101
CN102
CAM– CAM+ HOME CLAMP GND H1– H2– H3– HB+ HB– H3+ H2+ H1+ A1 A3 A2 CO+ CO– LOADSWR LED GND LOADPHT LOADSWL INISW TEMP
TO– FO+ FO– TO+ GND E VCC B+D LD+ LD– MD A+C VR VREF F
STAGE ASSY(SERVICE)
M1 CAM MOTOR
M2 F/I MOTOR
K
RPS PCB ASSY
PCB ASSY
SWDVDD CAMREF GND CAMSNS ELVREF ELVSNS E/L+ E/L–
R11 5R6K VR2 CCW1023 10k R14 5R6K VR13 CCW1029 10k(B)
R13 5R6K VR11 CCP1442 1k(B) R12 4R7K
VR12 CCP1442 1k(B)
Q101 2SB1132
LD1
R103 2R7 R104 2R4 R105 2R4 1/10W
R108 2R7K C104 15/6R3
#3.3V
REFO
R101 470 R102 330 1/10W
C103 R1 L102 C102 R1
IC301
R316 1 R317 2R2 1/10W 1608
R202 10K C201 1800P C202 R047 R203 2R2K C203 R1
R229 0R0 C243 R1 C206 1500P C205 R204 5R6K R205 4R7K C207 33P R207 100 C213 R1
C208 R47 C209 R01 C214 68P C210 47P C211 6800P C204 R001
C216 1500P C219 R001 R218 R214 10K R216 4R7K R212 4R7K R209 4R7K
C217 R1 R215 1K R001 C218
109 REFSV 110 EFM 111 ASY 112 ATEST 113 RFI 114 AD.GND 115 AGCO 116 C3T 117 AGCI 118 RFO 119 EQ2 120 EQ1 121 RF2– 122 RF– 123 A.GND 124 A 125 C 126 B 127 D 128 F 129 E 130 VREFIN 131 A.VDD 132 REFOUT 133 REFC 134 FE– 135 FEO 136 ADCIN 137 TE– 138 TEO 139 TE2 140 TEC 141 LD PD 142 D.GND5 143 D.VDD1 144
AC BD F E PD
⑤ RFAGCO ⑩ RFAGCI ⑨ FE ⑥ TE ⑦ ② FO+ ③ FO–

B

C

D

J-b
J-a

E

F

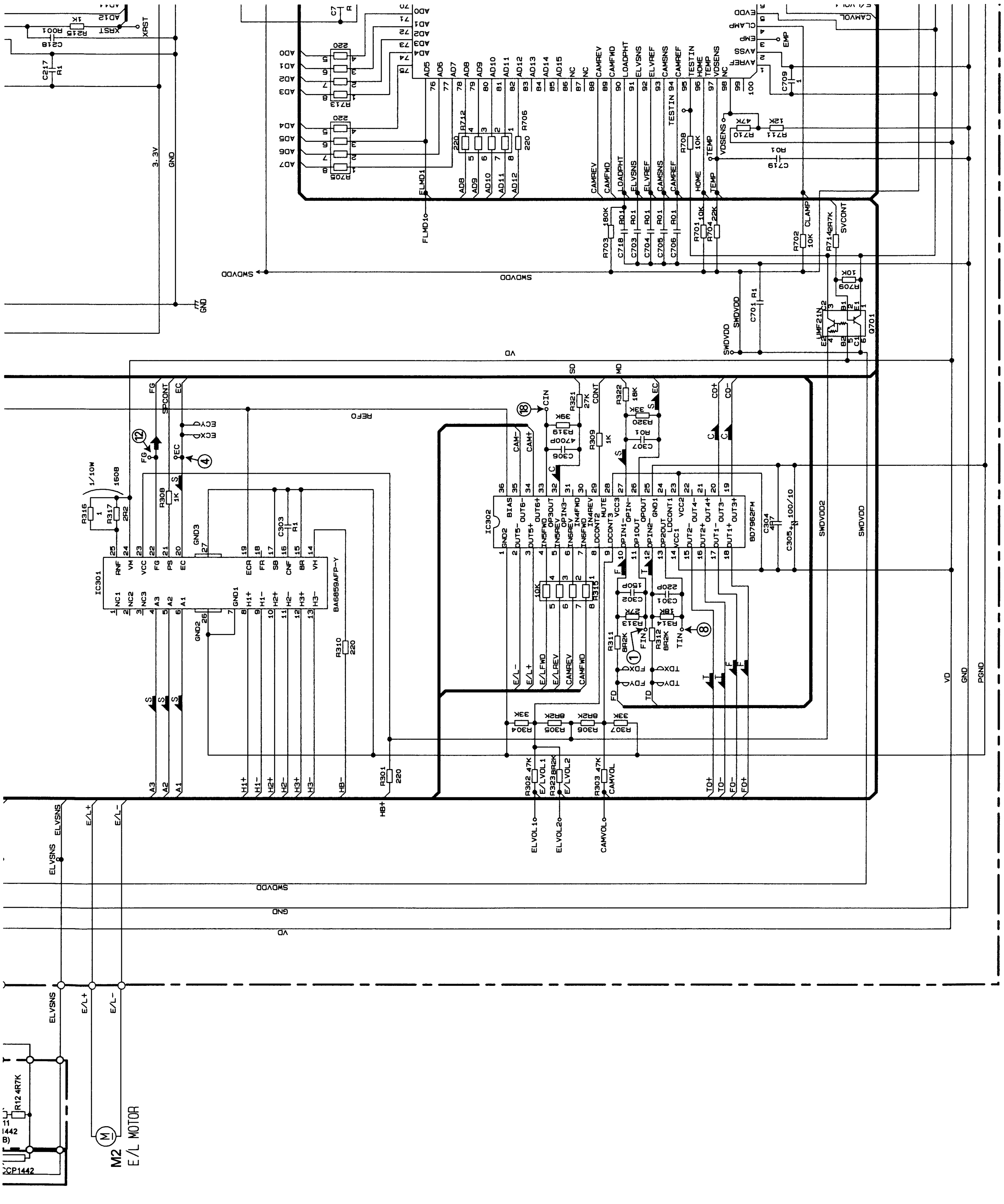
J-a **K**

A

J-b

B

C


IC301
BA6859AFP-Y
IC302
BD7962FM
M2
E/L MOTOR
SWDVDD
VD
GND
PGND
ELVSNS
E/L+
E/L-
ELVOL1
ELVOL2
CAMVOL
FLMD1
REFO
Q701
UMF21N

D

J-b
J-a

E

F

J-a

A

B

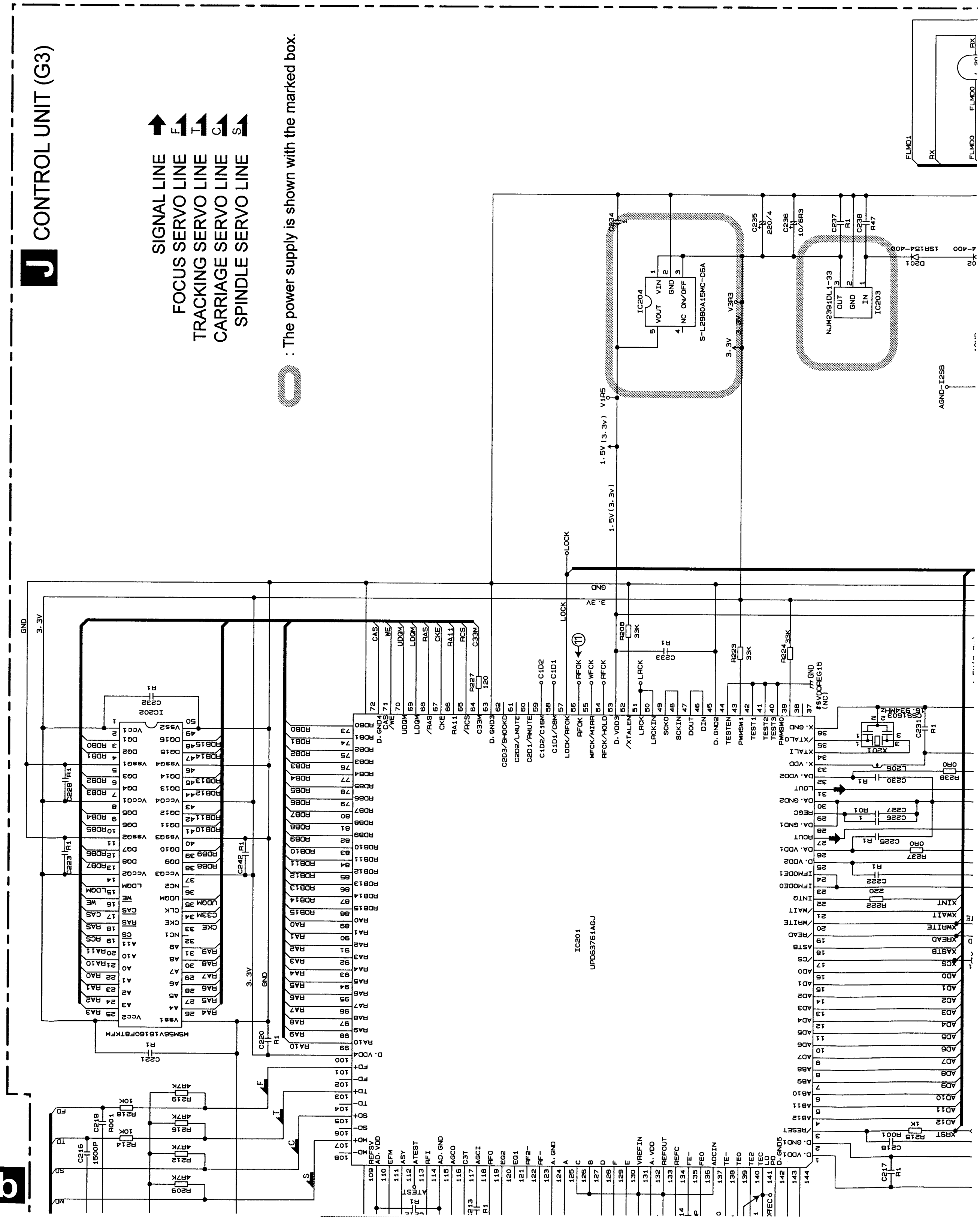
C

D

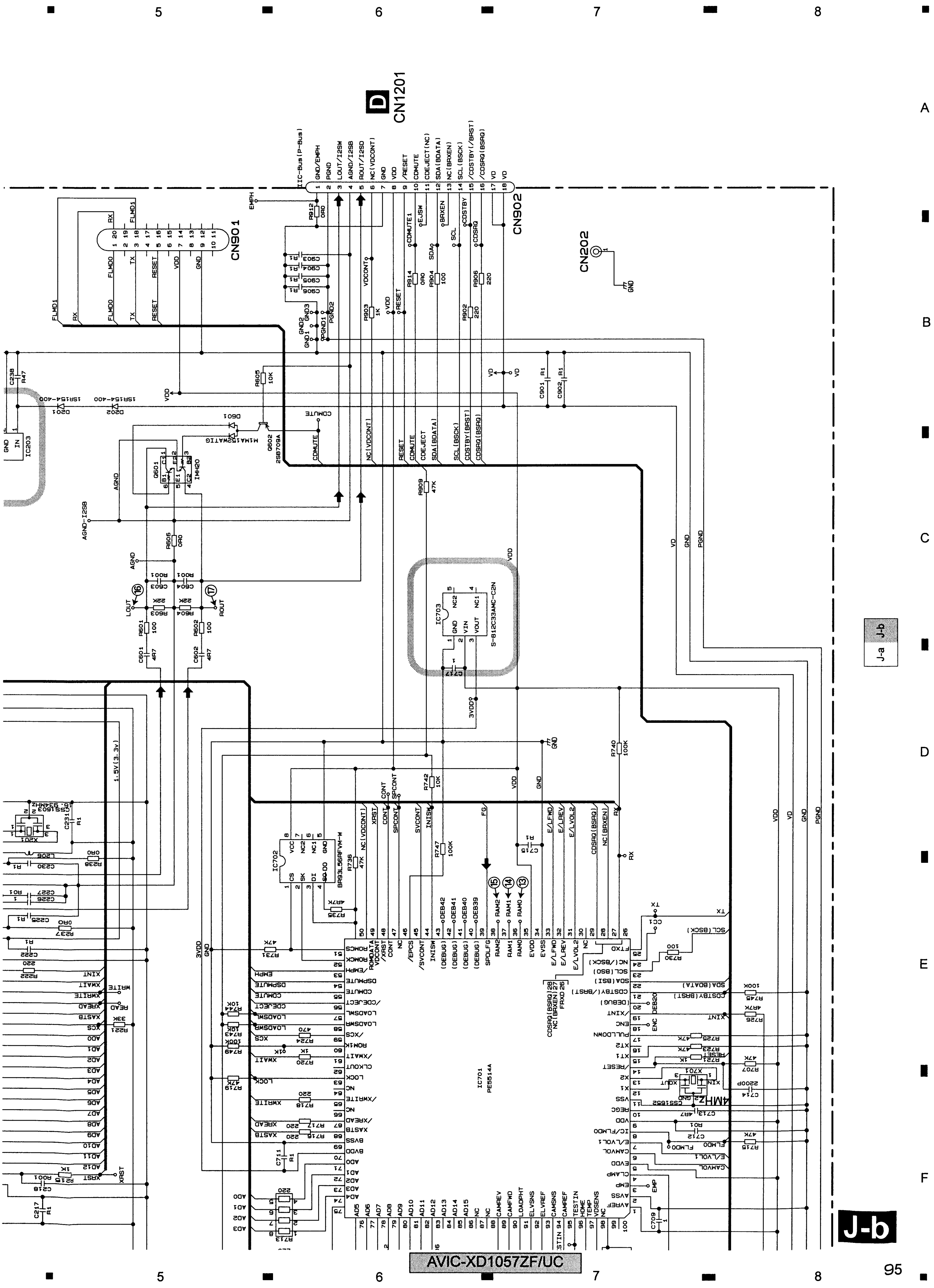
E

F

J CONTROL UNIT (G3)


SIGNAL LINE
FOCUS SERVO LINE
TRACKING SERVO LINE
CARRIAGE SERVO LINE
SPINDLE SERVO LINE
F
T
C
S
: The power supply is shown with the marked box.
J-a
J-b
IC201
UPD63761AGJ
IC202
MSM56V16160F8TKFM
IC204
S-L2980A15MC-C6A
IC203
NJM2391DL1-33
X201
CSS1603
16.934MHz
D201
1SR154-400
GND
3.3V
LOCK
1.5V (3.3v)
V1R5
V3R3
FLMD1
FLMD0
RX
AGND-I2S8
R208 33K
R223 33K
R224 33K
R209 4R7K
R212 4R7K
R216 4R7K
R219 4R7K
R214 10K
R218 10K
R215 1K
R227 120
R222 220
C216 1500P
FD
TD
SD
MD
XINT
XWAIT
XWRITE
XREAD
XAST8
XCS
XRST
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
AD8
AD9
AD10
AD11
AD12

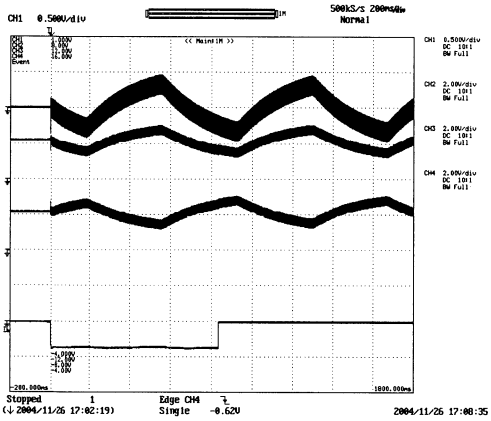
J-b



5
6
7
8
A
B
C
D
E
F
D
CN1201
CN901
CN902
CN202
IC203
IC701
PE5514A
IC702
BR93L56RFVM-W
IC703
S-812C33AMC-C2N
Q601
IMH20
Q602
2SB709A
D601
M1MA152WATIG
D201
D202
1SR154-400
X701
CSS1652
4MHz
X201
CSS1603
VDD
GND
PGND
AGND
AGND-I2SB
LOUT
ROUT
3VDD
1.5V(3.3V)
J-a
J-b

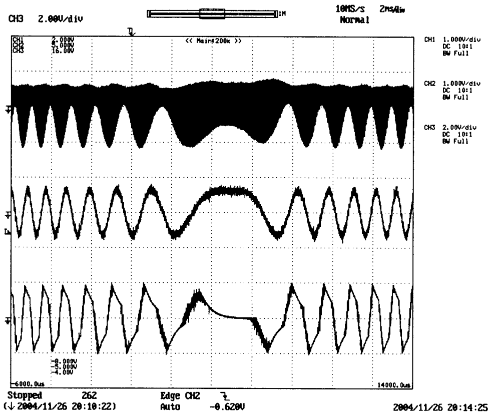
Note: The encircled numbers denote measuring points in the circuit diagram.

CH1 : ① FIN Mode:Test
CH2 : ② FO+
CH3 : ③ FO-
CH4 : ④ EC
Focus search mode

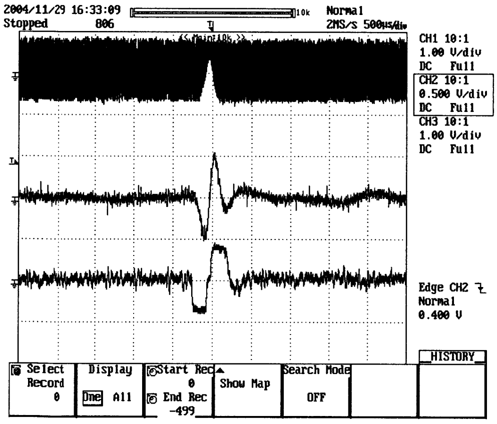


CH1 : ⑤ RFAGCO Mode:Test
CH2 : ⑥ TE
CH3 : ⑦ TEC

Tracking open

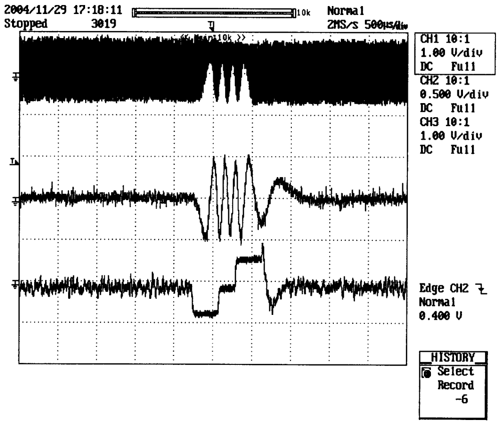


CH1 : ⑤ RFAGCO Mode:Test
CH2 : ⑥ TE
CH3 : ⑧ TIN
1 Track Jump



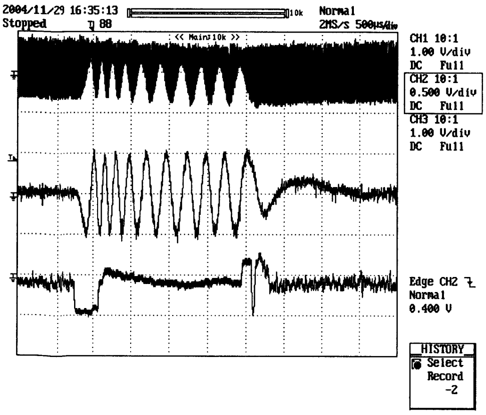
CH1 : ⑤ RFAGCO Mode:Test
CH2 : ⑥ TE
CH3 : ⑧ TIN

4 Track Jump



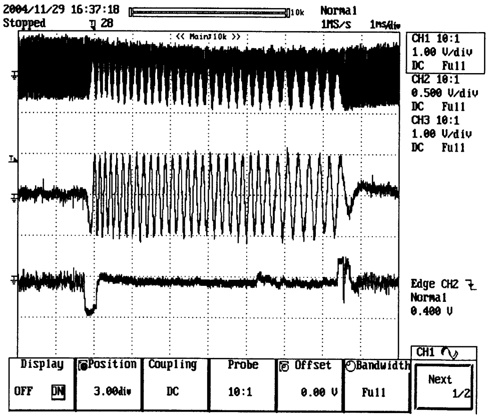
CH1 : ⑤ RFAGCO Mode:Test
CH2 : ⑥ TE
CH3 : ⑧ TIN

10 Track Jump



CH1 : ⑤ RFAGCO Mode:Test
CH2 : ⑥ TE
CH3 : ⑧ TIN

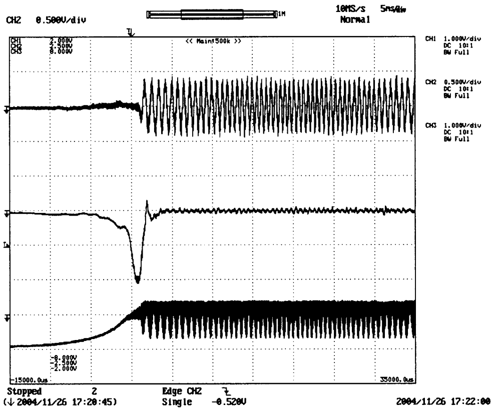
32 Track Jump



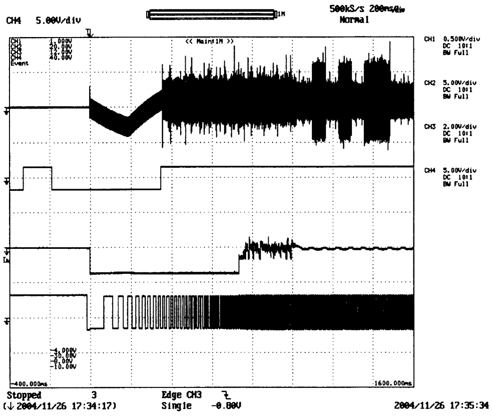
Note: The encircled numbers denote measuring points in the circuit diagram.

CH1 : ⑥ TE Mode:Test
CH2 : ⑨ FE
CH3 : ⑩ RFAGCI

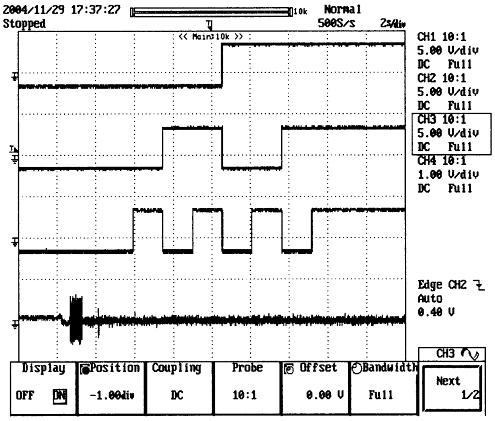
Focus close



CH1 : ① FIN Mode:Test
CH2 : ⑪ RFOK
CH3 : ④ EC
CH3 : ⑫ FG
Setup

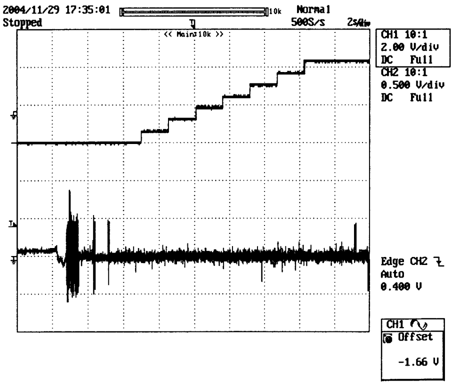


CH1 : ⑬ RAM0 Mode:Test
CH2 : ⑭ RAM1
CH3 : ⑮ RAM2
CH4 : ⑥ TE
Memory capacity(remainig)during PLAY

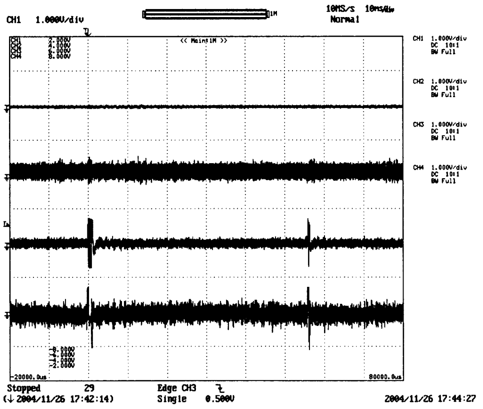


CH1 : ⑤ RFAGCO Mode:Test
CH2 : ⑥ TE

Memory capacity(remainig)during PLAY(with jigu)
*About the usage of jigu, refer to Fig. 1.

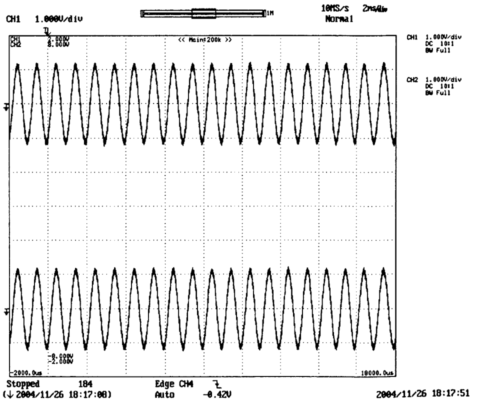


CH1 : ⑨ FE Mode:Test
CH2 : ① FIN
CH3 : ⑥ TE
CH4 : ⑧ TIN
During"Play"



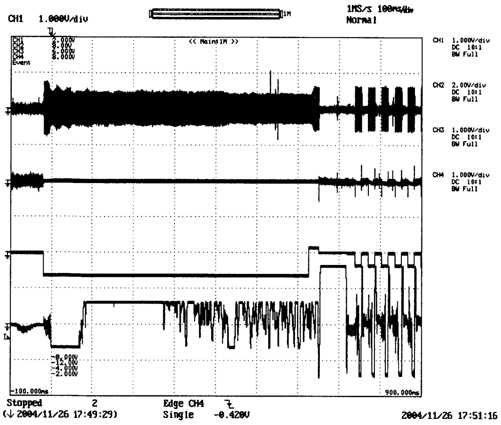
CH1 : ⑯ LOUT Mode:Test
CH2 : ⑰ ROUT

Audio output(1kHz,0dB)

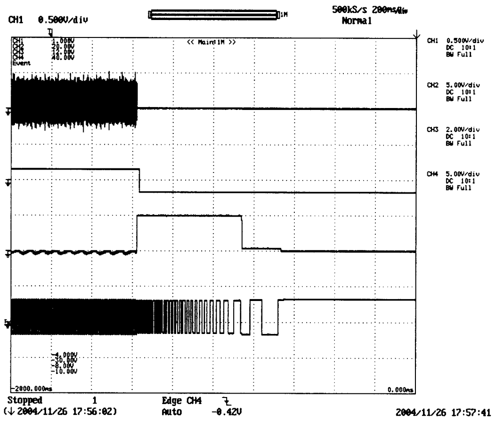


Note: The encircled numbers denote measuring points in the circuit diagram.

CH1 : ⑥ TE Mode:Test
CH2 : ⑧ TIN
CH3 : ⑳ CIN
CH4 : ④ EC
During inside/outside search



CH1 : ① FIN Mode:Test
CH2 : ⑪ RFOK
CH3 : ⑭ EC
CH3 : ⑫ FG
DISC stop



*note
RAM memory usage monitoring function

The memory usage within the RAM can be monitored by tracking the voltage levels at the test points, RAM0,RAM1,RAM2, on the PCB.
Divide the total volume of the RAM by 7, and express the memory usage in 3 bits (3 binary digits), RAM0,RAM1,RAM2. The RAM0 indicates the least significant bit. If then the combination of the voltage levels measured at the RAM0,RAM1,RAM2 is converted to an octal number, X (Oct), the memory usage within the RAM should be expressed by "X (Oct) / 7".
It is also possible to measure the memory usage within the RAM in voltage (appx 5V at max), by adding the R/2R ladder resistance circuit detailed in the diagram on the right.

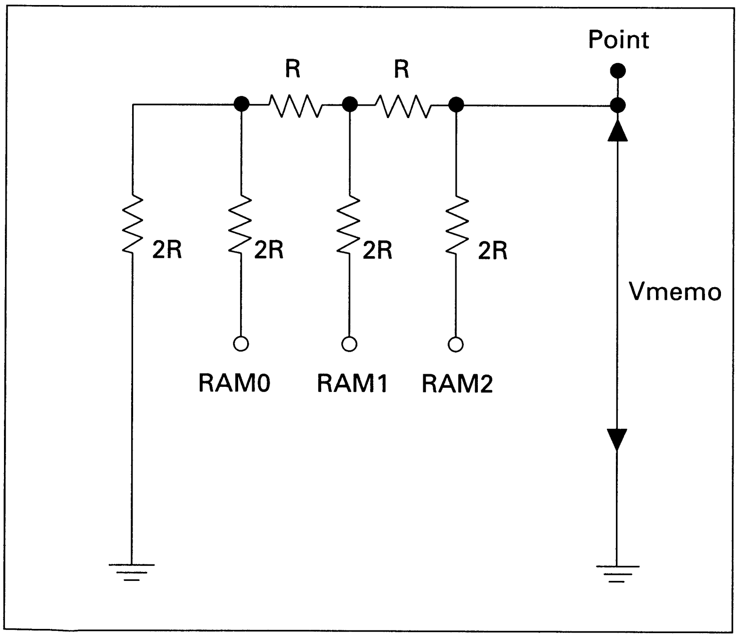
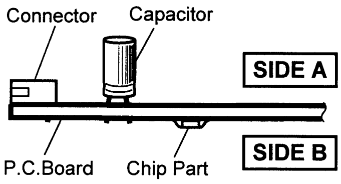


Fig.1

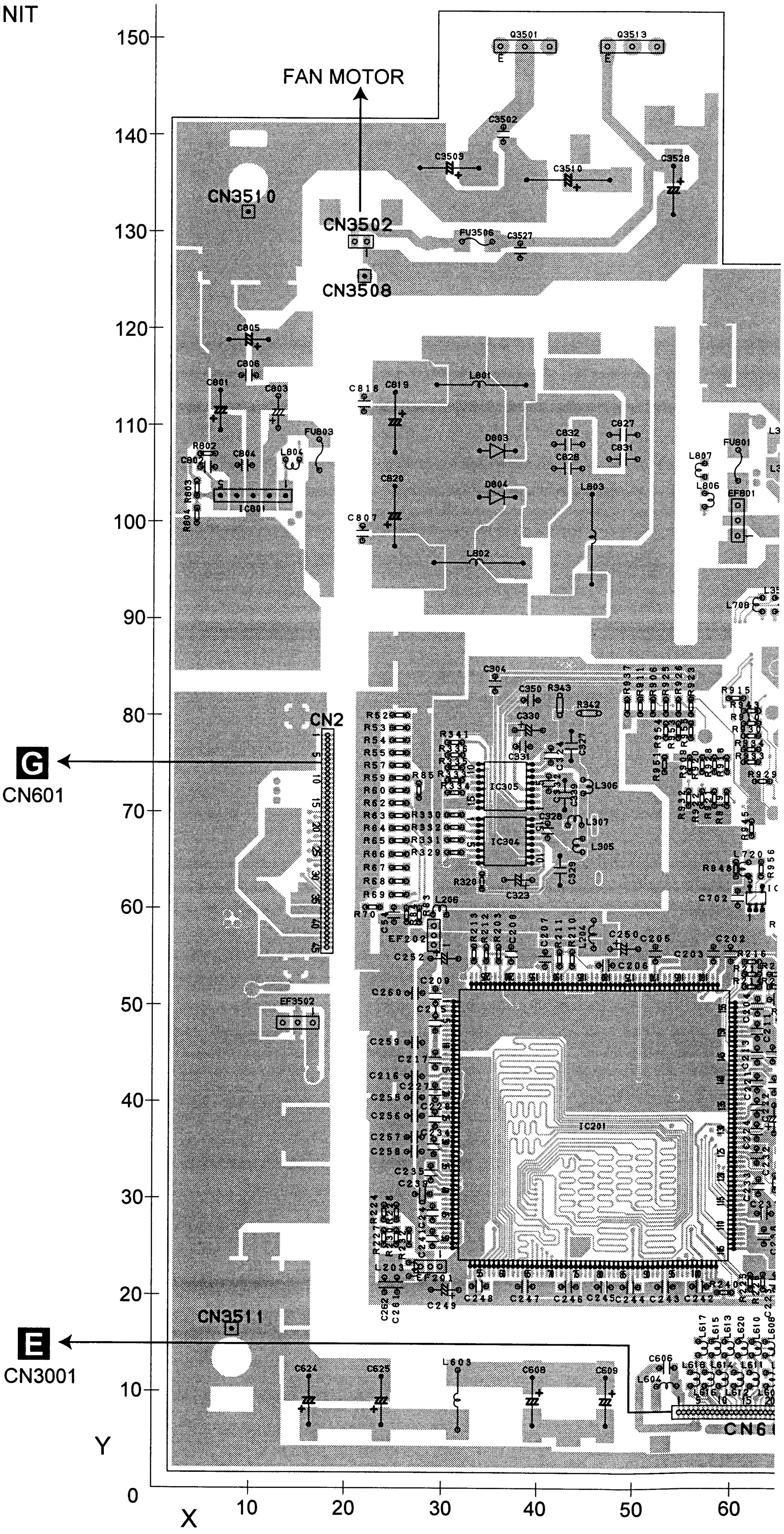
4. PCB CONNECTION DIAGRAM
4.1 NAVI UNIT

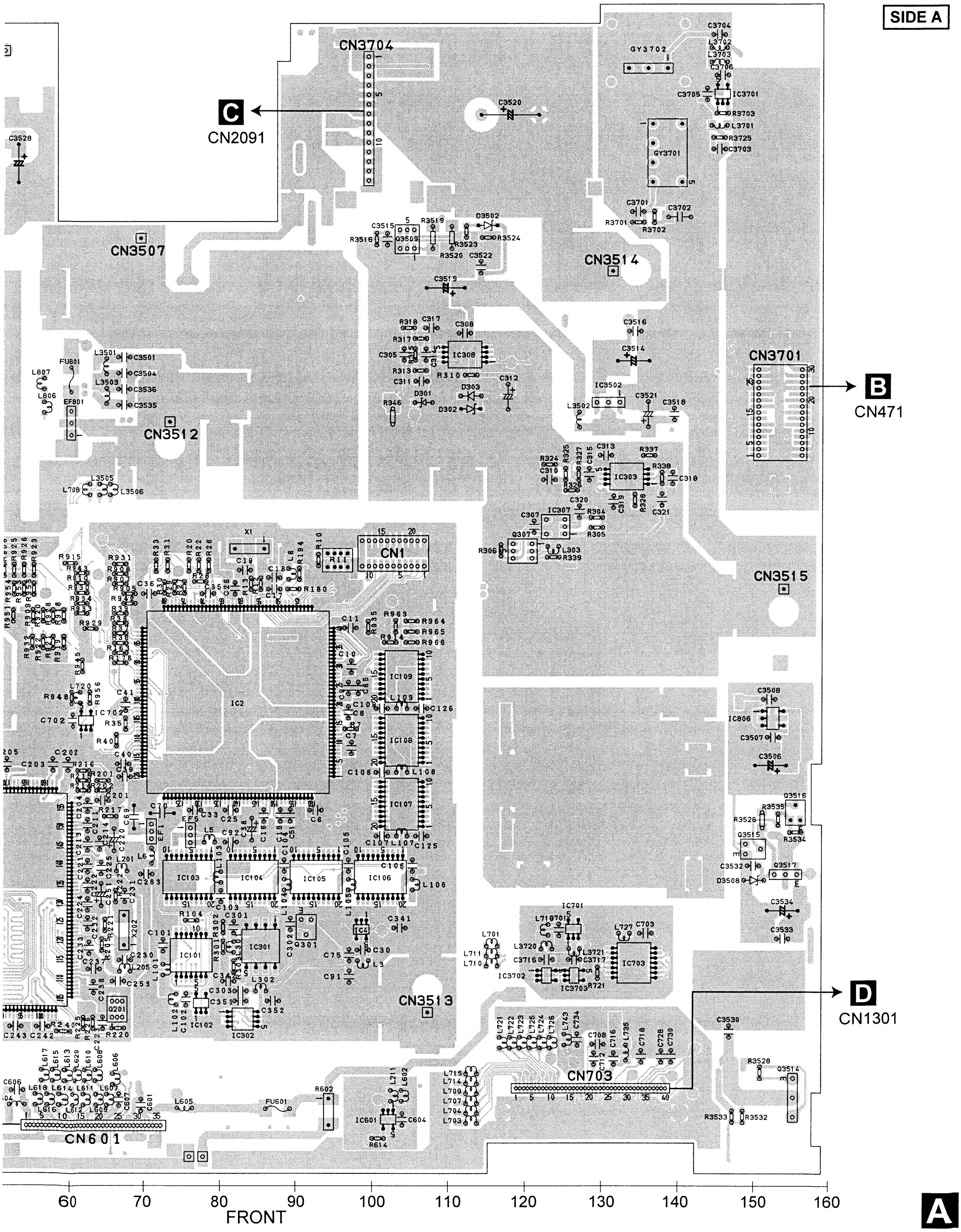
NOTE FOR PCB DIAGRAMS

1. The parts mounted on this PCB include all necessary parts for several destination.
   For further information for respective destinations, be sure to check with the schematic diagram.
2. Viewpoint of PCB diagrams


Connector
Capacitor
SIDE A
SIDE B
P.C.Board
Chip Part

A NAVI UNIT


FAN MOTOR
Q3501
Q3513
CN3510
CN3502
CN3508
CN2
G
CN601
IC305
IC304
IC201
EF3502
CN3511
E
CN3001
CN6
Y
X
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150


SIDE A
CN3704
C
CN2091
GY3702
C3704
L3702
L3703
C3706
C3705
IC3701
R3703
L3701
R3725
C3703
GY3701
C3520
C3528
C3701
C3702
R3701
R3702
C3515
R3519
D3502
R3516
Q3509
R3523
R3524
R3520
C3522
CN3507
CN3514
C3519
R318
C317
C308
R317
C305
IC308
R313
R310
C311
C312
D301
D303
R346
D302
C3516
C3514
IC3502
C3521
C3518
L3502
CN3701
B
CN471
L3501
C3501
FU801
C3504
L807
L3503
C3536
L806
C3535
EF801
CN3512
L3505
L708
L3506
R324
R325
R327
C315
C313
R337
C310
R326
IC303
R338
C318
C319
R320
C321
C320
IC307
C307
R304
R305
Q307
R306
L303
R339
X1
CN1
R11
C19
C18
R10
R184
R180
CN3515
IC2
C11
R963
R964
R965
R966
IC109
L109
C126
IC108
C108
L108
IC107
C107
L107
C125
IC103
IC104
IC105
IC106
L106
C106
IC101
IC301
Q301
IC4
C341
C30
L3
C75
C91
IC102
IC302
C351
C352
C303
L302
R104
C101
X202
Q201
C230
L205
C253
R220
C243
C242
R948
L720
IC702
C702
R35
R40
C41
C40
C203
C202
R216
R201
C201
C204
C69
EF1
EF5
L5
C92
C6
C33
C25
L6
L201
C220
C221
C224
C233
C238
C283
CN3513
IC701
L719
L701
L711
L710
L3720
L3721
C3716
C3717
IC3702
IC3703
R721
L727
C703
IC703
D
CN1301
L721
L722
L723
L725
L724
L726
L743
C734
C708
C716
L735
C718
C728
C730
C712
CN703
1 5 10 15 20 25 30 35 40
L715
L714
L709
L707
L704
L703
L211
L602
IC601
C604
R614
R602
FU601
L605
CN601
1 5 10 15 20 25 30 35
C606
L617
L615
L620
L610
L608
L606
L618
L614
L611
L607
L616
L612
L609
C607
C601
C3508
IC806
C3507
C3506
Q3516
R3526
R3535
Q3515
R3534
C3532
Q3517
D3508
C3534
C3533
C3530
R3528
Q3514
R3533
R3532
60 70 80 90 100 110 120 130 140 150 160
FRONT
A

A

A NAVI UNIT

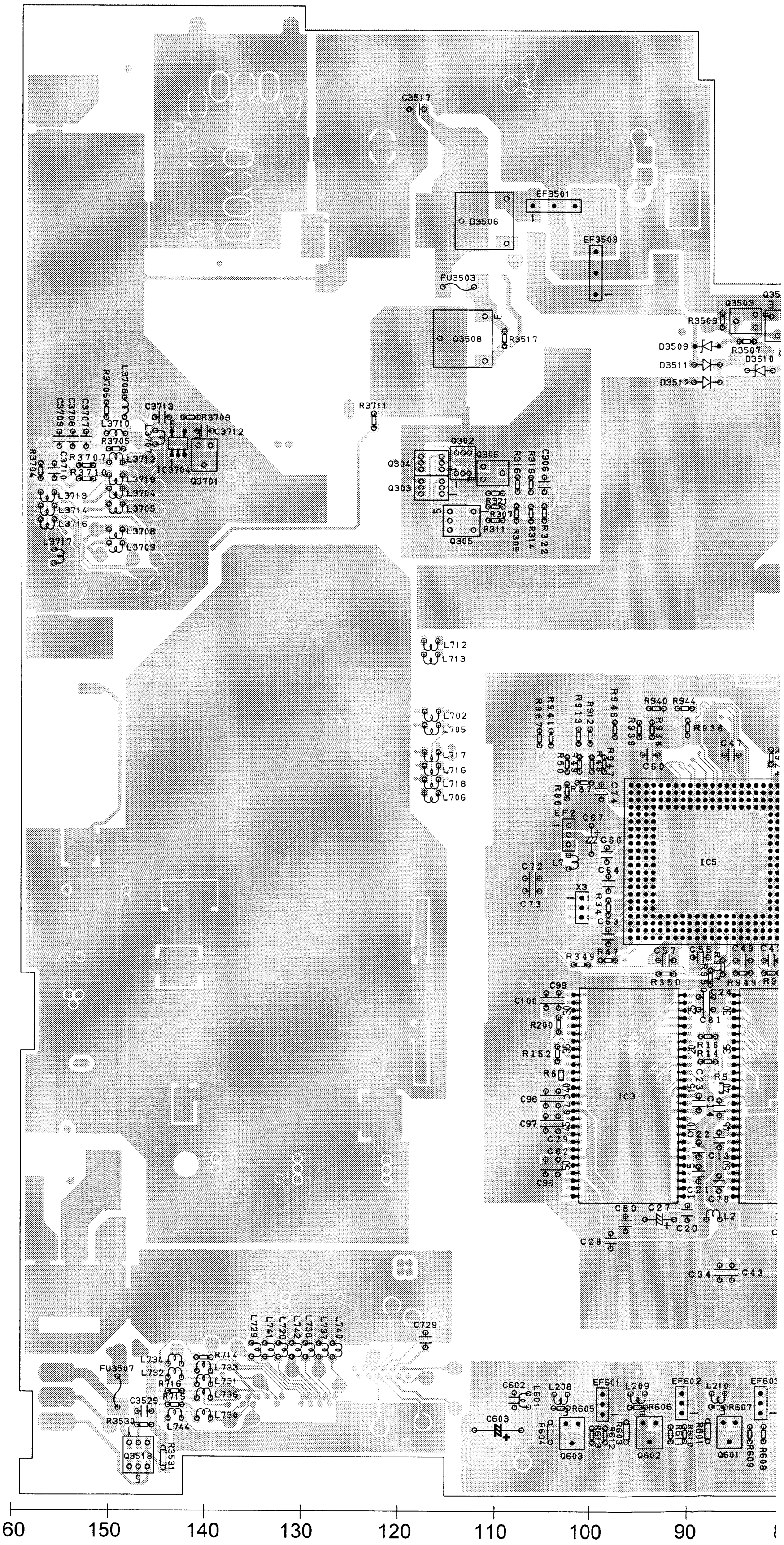
B

C

D

E

F


C3517
EF3501
D3506
EF3503
FU3503
Q3508
R3517
Q3503
R3509
D3509
R3507
D3511
D3510
D3512
R3711
R3706
L3706
C3713
R3708
C3712
C3709
C3708
C3707
L3710
R3705
L3707
L3712
IC3704
Q3701
R3704
C3710
R3707
R3710
L3719
L3713
L3704
L3714
L3705
L3716
L3708
L3717
L3709
Q302
Q304
Q306
Q303
R316
R319
C306
R321
R307
R311
Q305
R309
R314
R322
L712
L713
L702
L705
L717
L716
L718
L706
R940
R944
R946
R936
R939
R938
C47
C50
R967
R941
R913
R912
C74
R67
EF2
C67
C66
L7
C64
C72
C73
X3
IC5
R349
R47
C57
C55
C48
R350
C99
C100
R200
R152
R6
C98
C97
C29
C82
C96
IC3
C81
C23
R16
R14
R5
C78
C80
C27
C20
L2
C28
C34
C43
L729
L741
L728
L742
L738
L737
L740
C729
FU3507
L734
L732
R714
R716
R715
L733
L731
L736
L730
L744
C3529
R3530
Q3518
R3531
C602
L601
L208
EF601
L209
EF602
L210
R605
R606
R607
C603
R604
Q603
Q602
Q601
R608
R609
160
150
140
130
120
110
100
90

A

SIDE B

A

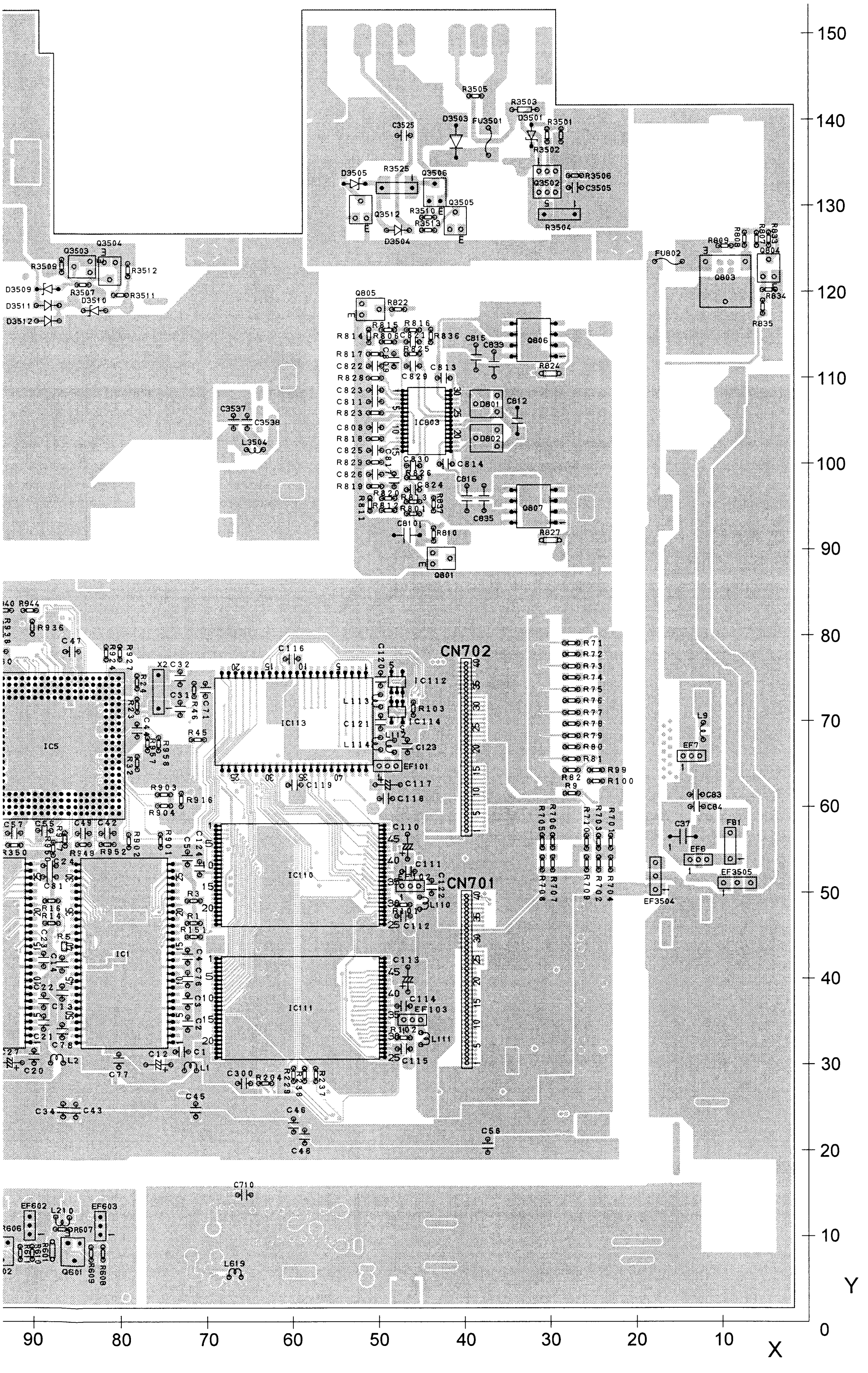
B

C

D

E

F


150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
90
80
70
60
50
40
30
20
10
X
CN702
CN701
IC5
IC1
IC110
IC111
IC113
IC112
IC114
IC803
Q801
Q803
Q804
Q805
Q806
Q807
D801
D802
Q3502
Q3503
Q3504
Q3505
Q3506
Q3512
D3501
D3503
D3504
D3505
D3509
D3510
D3511
D3512
FU3501
FU802
R3501
R3502
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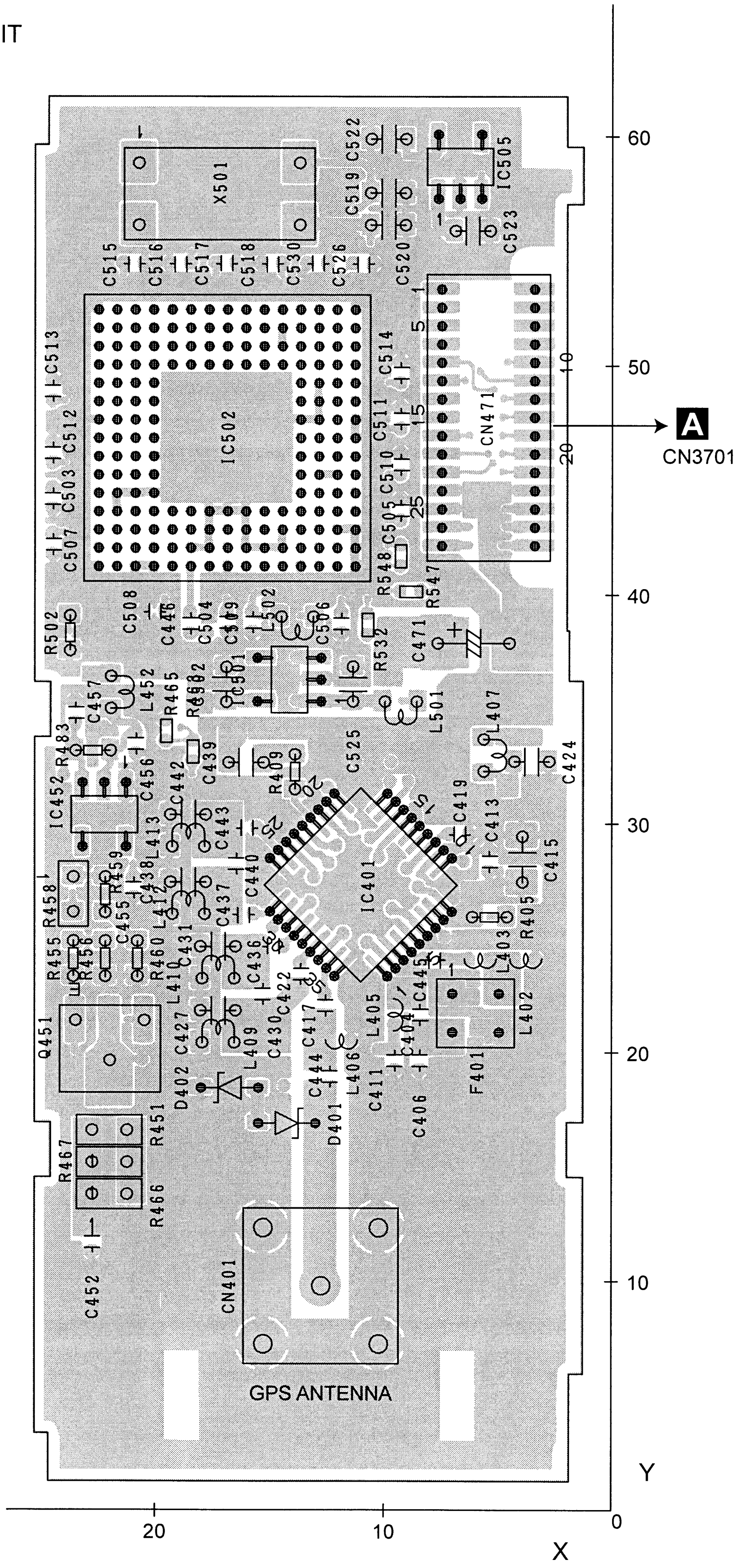
R3506
R3507
R3509
R3510
R3511
R3512
R3513
R3525
C3505
C3525
C3537
C3538
L3504
EF101
EF103
EF6
EF7
EF3504
EF3505
EF602
EF603
FB1
L9
L1
L2
L110
L111
L113
L114
L210
L619
X2
Q601
C710
C58
C45
C46
C48
C34
C43
C20
C77
C300
R71
R72
R73
R74
R75
R76
R77
R78
R79
R80
R81
R82
R9
R99
R100
R701
R702
R703
R704
R705
R706
R707
R708
R709
R710
C83
C84
C37

A

4.2 GPS UNIT

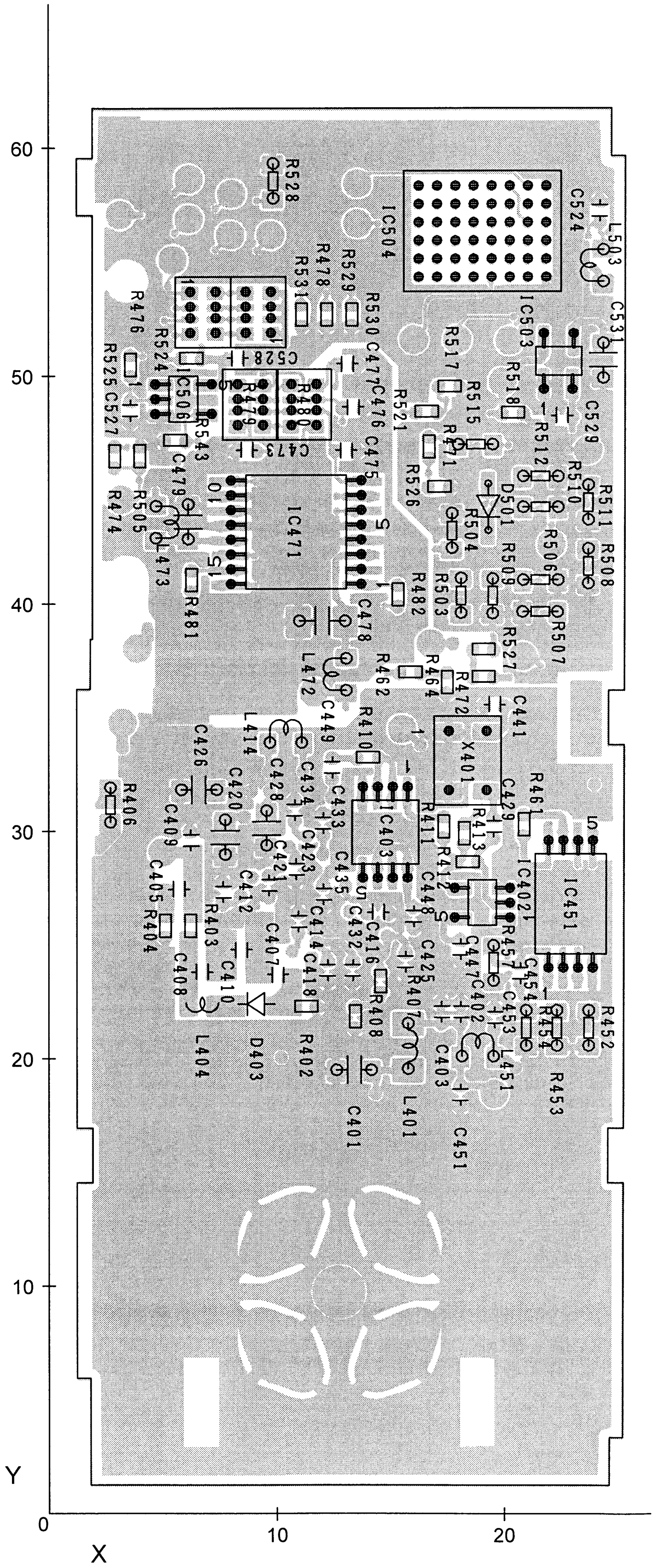
B GPS UNIT

SIDE A


X501
C522
C519
C520
IC505
C523
C515
C516
C517
C518
C530
C526
IC502
C513
C512
C503
C507
C514
C511
C510
C505
R548
R547
CN471
1
5
10
15
20
25
A
CN3701
R502
C508
C446
C504
C509
L502
C506
R532
C471
IC501
L452
R465
R482
C457
R483
C456
C442
C439
R409
C525
L501
L407
C424
IC452
L413
C443
C441
C419
C413
C415
R458
R459
C438
L412
C440
C455
R460
C431
C437
IC401
R405
R455
R456
L410
C436
C422
C445
L403
L405
L402
Q451
C427
L409
C430
C417
C404
C411
L406
C444
F401
D402
D401
C406
R451
R467
R466
C452
CN401
GPS ANTENNA
60
50
40
30
20
10
0
Y
X
20
10

B GPS UNIT

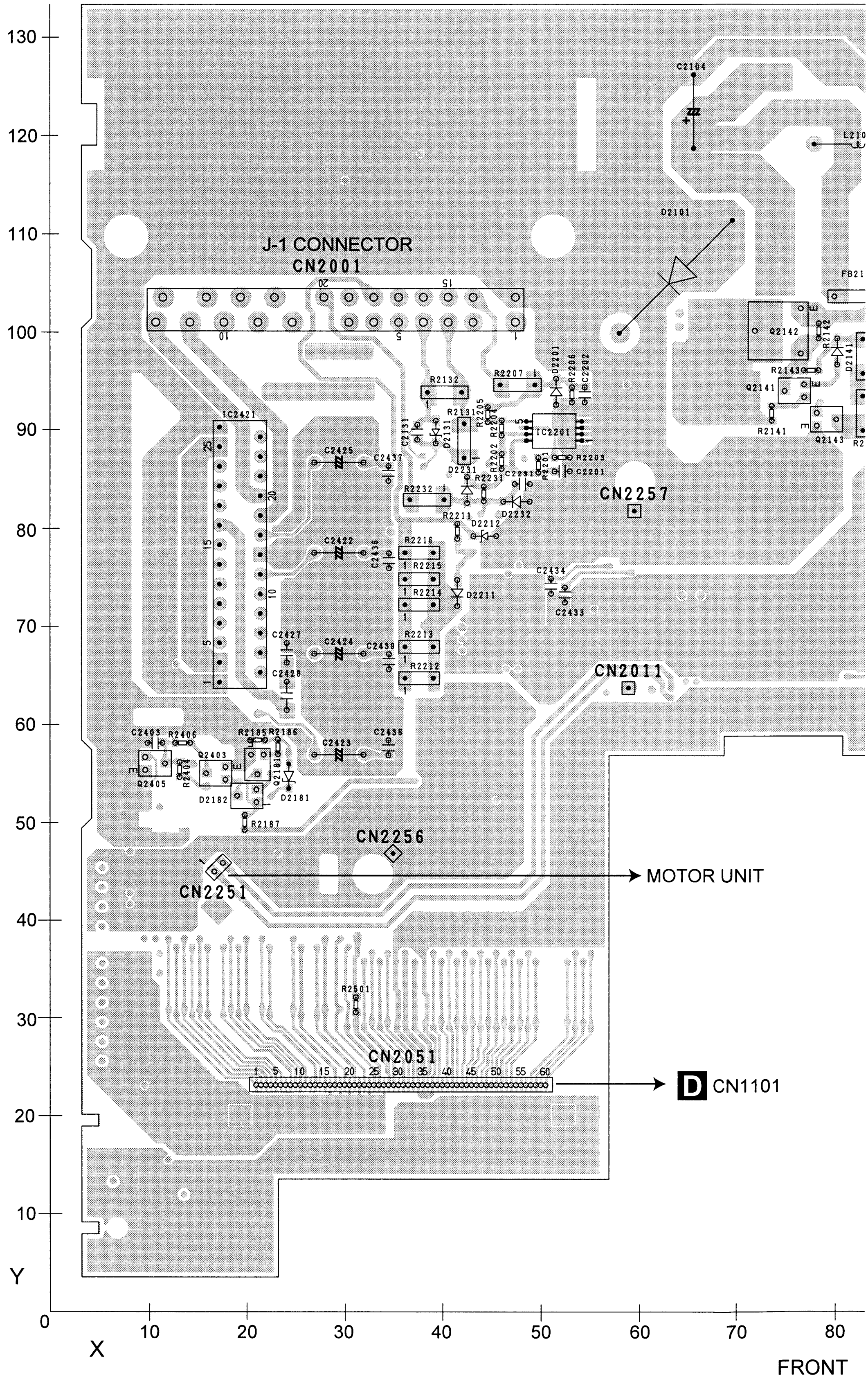
SIDE B


60
50
40
30
20
10
0
Y
X
10
20
IC504
IC503
IC471
IC506
IC403
IC402
IC451
X401
D501
D403
L503
L473
L472
L414
L404
L401
L451
R528
R478
R529
R531
R530
R476
R524
R525
R479
R480
R543
R474
R505
R481
R517
R518
R515
R521
R471
R526
R512
R510
R511
R504
R509
R506
R508
R503
R482
R507
R527
R462
R464
R472
R410
R461
R411
R413
R412
R406
R403
R404
R457
R407
R408
R402
R454
R452
R453
C524
C531
C528
C477
C527
C476
C529
C473
C475
C479
C478
C441
C449
C426
C428
C434
C433
C429
C420
C409
C421
C423
C435
C405
C412
C448
C414
C432
C416
C407
C408
C410
C418
C425
C447
C402
C454
C453
C403
C401
C451

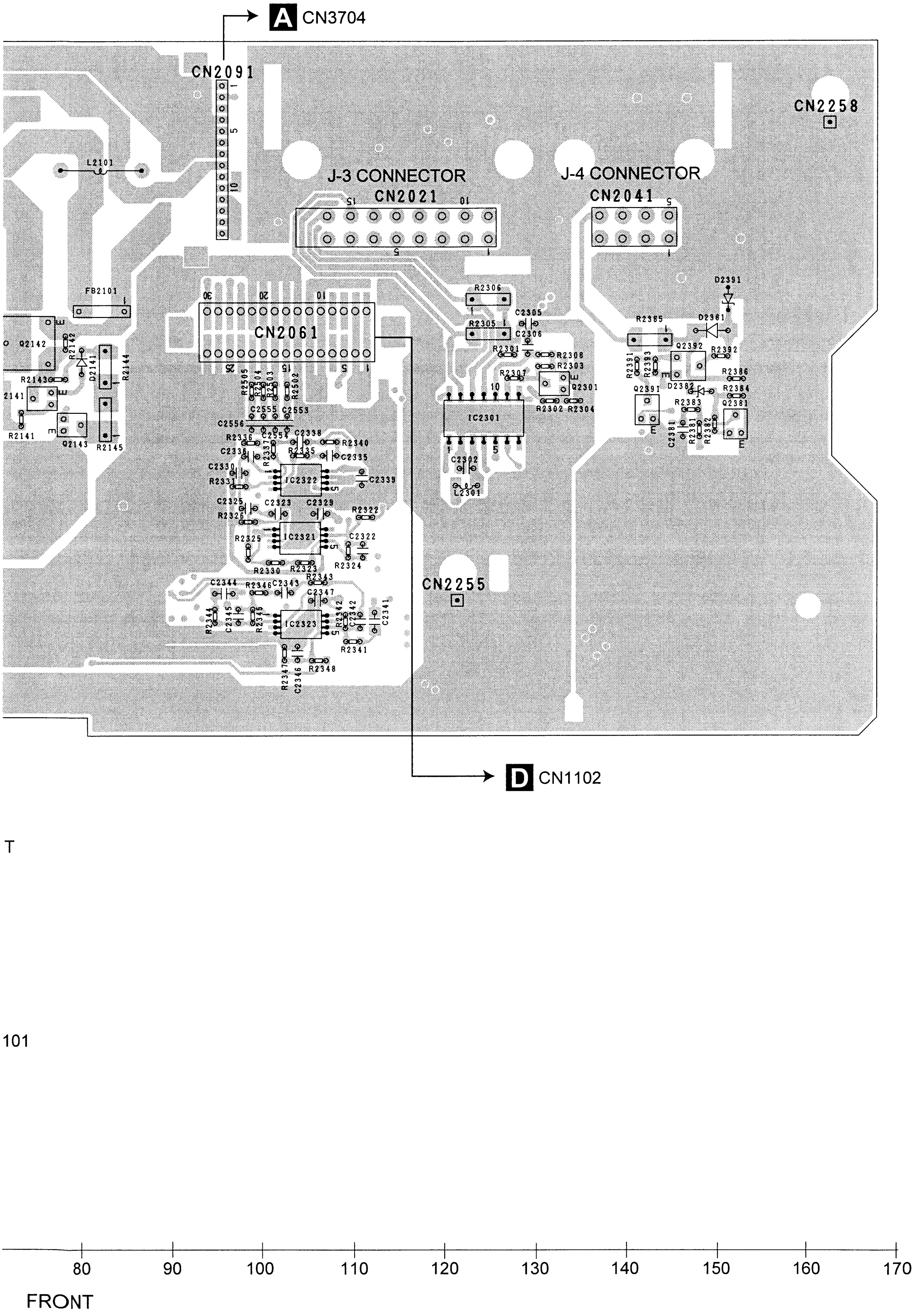
B

4.3 CONNECTOR PCB

C CONNECTOR PCB


J-1 CONNECTOR
CN2001
20
15
10
5
1
C2104
L210
D2101
FB21
Q2142
R2142
D2141
R2143
Q2141
R2141
Q2143
E
R2132
R2207
D2201
R2206
C2202
R2131
R2205
R2204
IC2201
C2131
D2131
R2202
R2201
R2203
C2201
D2231
R2231
C2231
R2232
D2232
R2211
D2212
CN2257
IC2421
25
20
15
10
5
1
C2425
C2437
C2422
C2436
R2216
R2215
R2214
D2211
C2434
C2433
C2427
C2428
C2424
C2439
R2213
R2212
CN2011
C2403
R2406
R2185
R2186
Q2403
Q2405
R2404
Q2181
D2181
D2182
R2187
C2423
C2438
CN2256
CN2251
MOTOR UNIT
R2501
CN2051
1 5 10 15 20 25 30 35 40 45 50 55 60
D CN1101
130
120
110
100
90
80
70
60
50
40
30
20
10
Y
0
X
10 20 30 40 50 60 70 80
FRONT

SIDE A


A CN3704
CN2091
1
5
10
L2101
J-3 CONNECTOR
CN2021
15
10
5
1
J-4 CONNECTOR
CN2041
5
1
CN2258
FB2101
CN2061
30
20
10
25
15
5
1
Q2142
R2142
D2141
R2144
R2143
R2141
Q2143
R2145
R2505
R2504
R2503
R2502
C2555
C2553
C2556
C2554
R2336
C2336
C2338
R2335
R2337
R2340
C2335
C2330
R2331
IC2322
C2339
C2325
C2323
C2329
R2326
R2322
IC2321
R2325
C2322
R2324
R2330
R2323
R2343
C2344
R2346
C2343
C2347
R2344
C2345
R2345
IC2323
R2342
C2342
C2341
R2341
R2347
C2346
R2348
CN2255
R2306
R2305
C2305
C2306
R2301
R2308
R2303
R2307
Q2301
R2302
R2304
IC2301
C2302
L2301
R2385
D2391
D2381
Q2392
R2392
R2391
R2393
R2386
D2384
R2384
Q2391
R2383
Q2381
C2381
R2381
R2382
E
D CN1102
80
90
100
110
120
130
140
150
160
170
FRONT

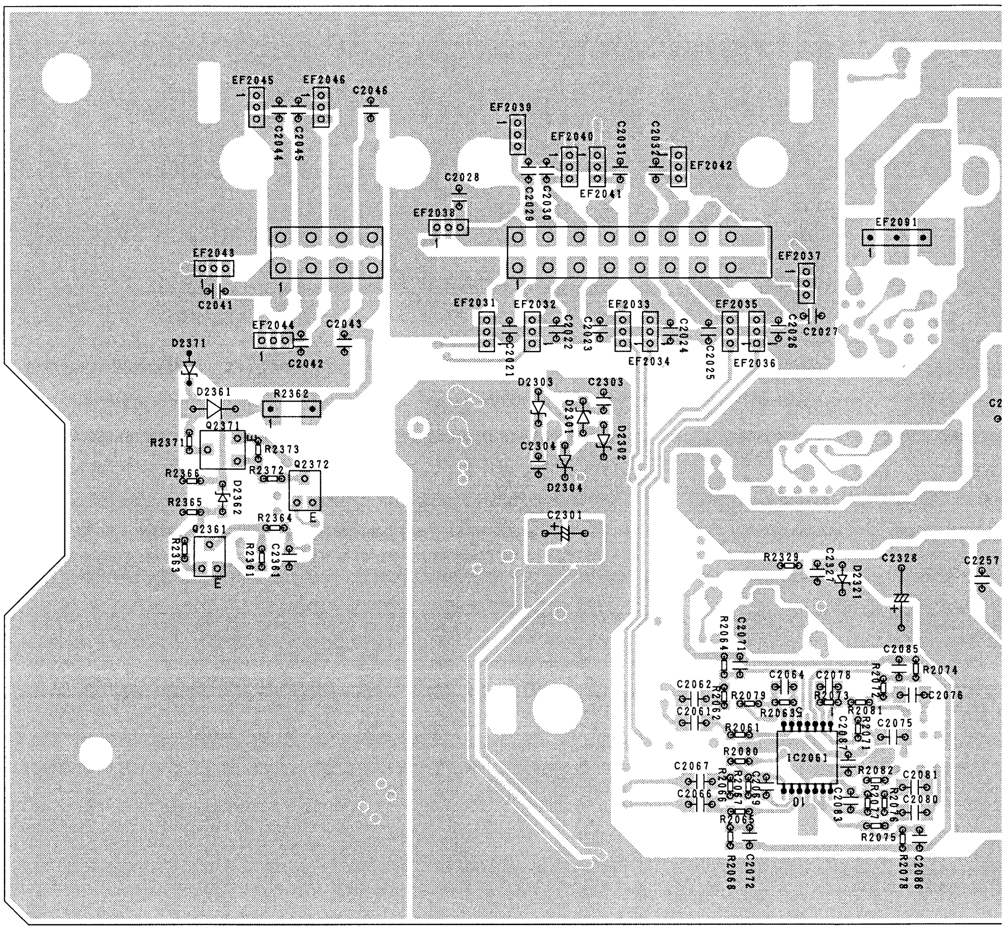
T

101

A
B
C
D
E
F

C CONNECTOR PCB

A


EF2045
EF2046
C2046
C2044
C2045
EF2039
EF2040
C2031
C2032
EF2042
EF2041
C2028
C2029
C2030
EF2038
EF2091
EF2043
EF2037
C2041
C2027
EF2031
EF2032
C2022
C2023
EF2033
C2024
EF2034
EF2035
C2026
EF2036
C2021
C2025
EF2044
C2043
C2042
D2371
D2361
R2362
D2303
C2303
D2301
D2302
C2304
D2304
Q2371
R2371
R2373
Q2372
R2372
R2366
D2362
R2365
R2364
E
Q2361
R2363
R2361
C2361
C2301
R2329
C2327
D2321
C2328
C2257
R2064
C2071
C2085
R2074
C2062
C2064
C2078
R2072
C2076
R2062
R2079
R2063
R2073
R2081
C2061
R2061
R2071
C2075
C2067
R2080
IC2061
R2082
C2081
C2066
R2066
R2067
C2069
C2083
R2077
R2076
C2080
R2065
R2075
R2068
C2072
R2078
C2086
1

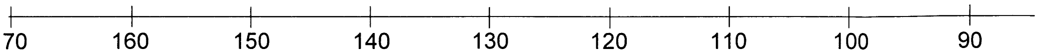
B

C

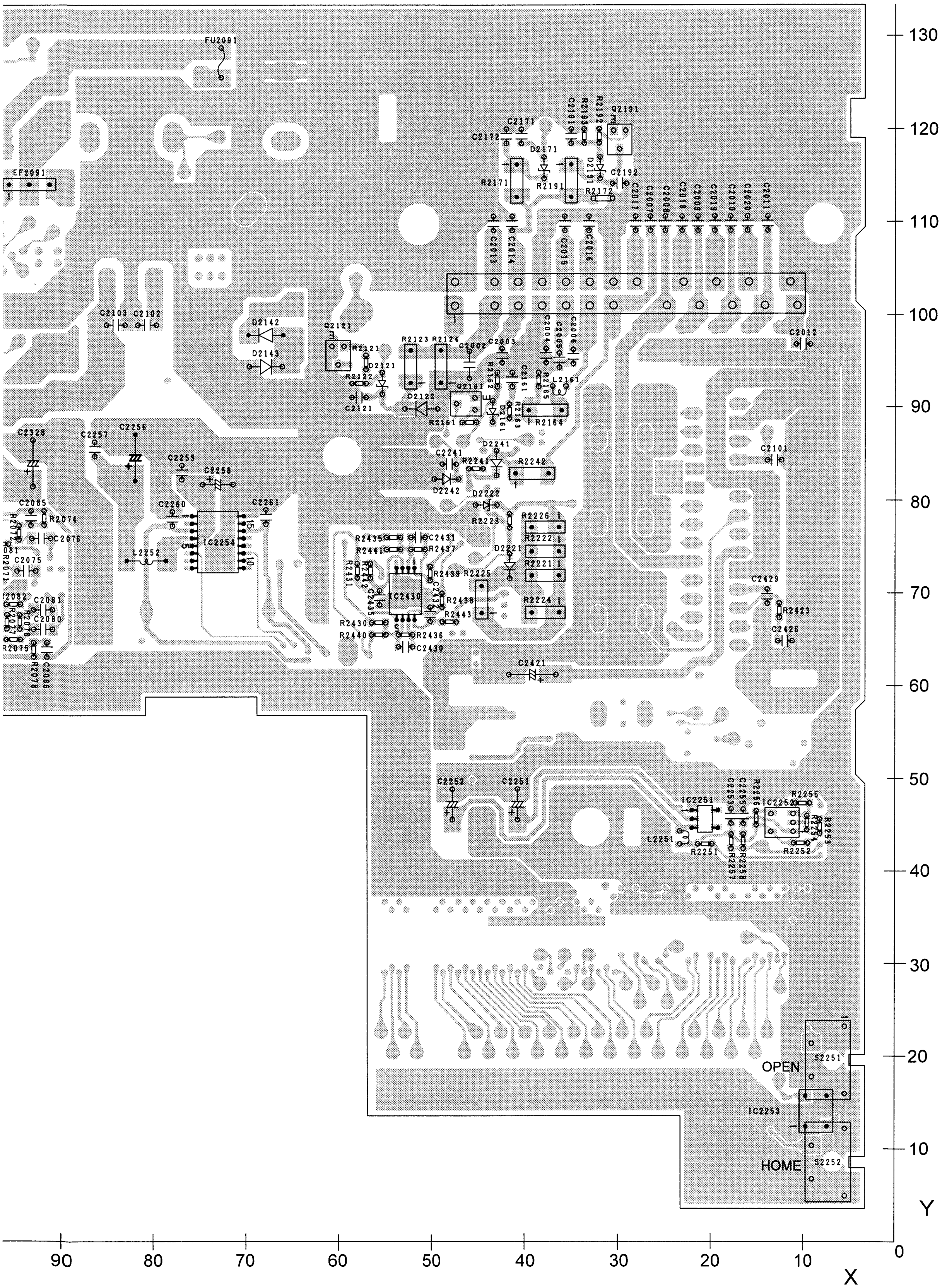
D

E

F


170
160
150
140
130
120
110
100
90

SIDE B

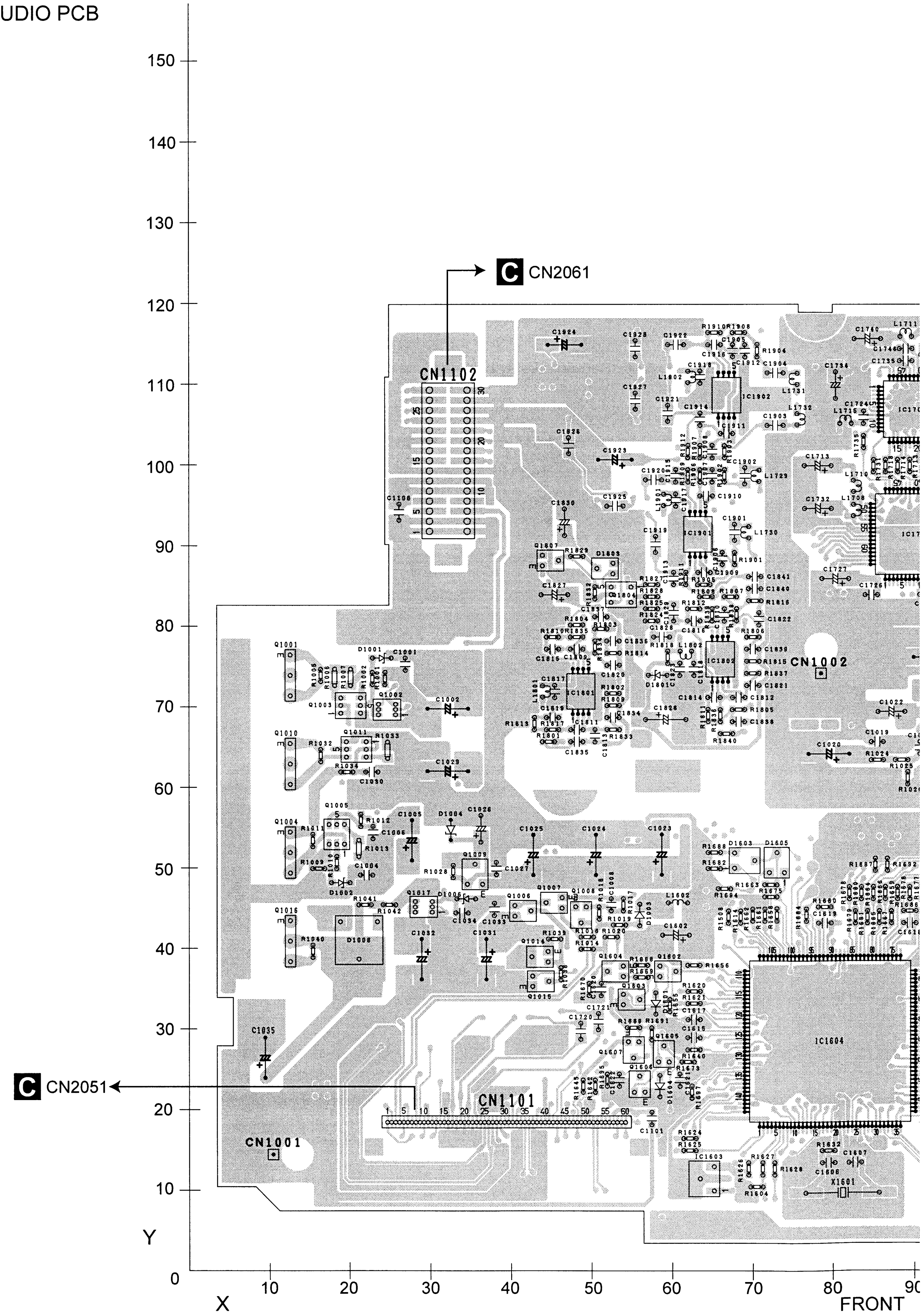

FU2091
EF2091
C2171
C2172
D2171
R2171
R2191
C2191
R2193
R2192
Q2191
D2191
C2192
R2172
C2017
C2007
C2008
C2018
C2009
C2019
C2010
C2020
C2011
C2013
C2014
C2015
C2016
C2103
C2102
D2142
D2143
Q2121
R2121
D2121
R2122
C2121
R2123
R2124
C2002
C2003
C2004
C2005
C2006
Q2161
C2161
R2162
R2165
L2161
D2122
R2161
D2161
R2163
R2164
C2012
C2101
C2328
C2257
C2256
C2259
C2258
C2085
R2074
R2072
C2076
R2071
C2075
C2260
C2261
IC2254
L2252
C2241
D2241
R2241
R2242
D2242
D2222
R2223
R2226
R2222
D2221
R2221
R2224
R2225
R2435
C2431
R2441
R2437
R2431
R2439
C2435
IC2430
C2433
R2438
R2443
R2430
R2440
R2436
C2430
C2082
C2081
C2080
R2075
R2078
C2086
C2429
R2423
C2426
C2421
C2252
C2251
IC2251
C2253
C2255
R2256
IC2252
R2255
R2254
R2253
R2252
L2251
R2251
R2257
R2258
OPEN
S2251
IC2253
HOME
S2252
130
120
110
100
90
80
70
60
50
40
30
20
10
Y
0
90
80
70
60
50
40
30
20
10
X

A
B
C
D
E
F

C

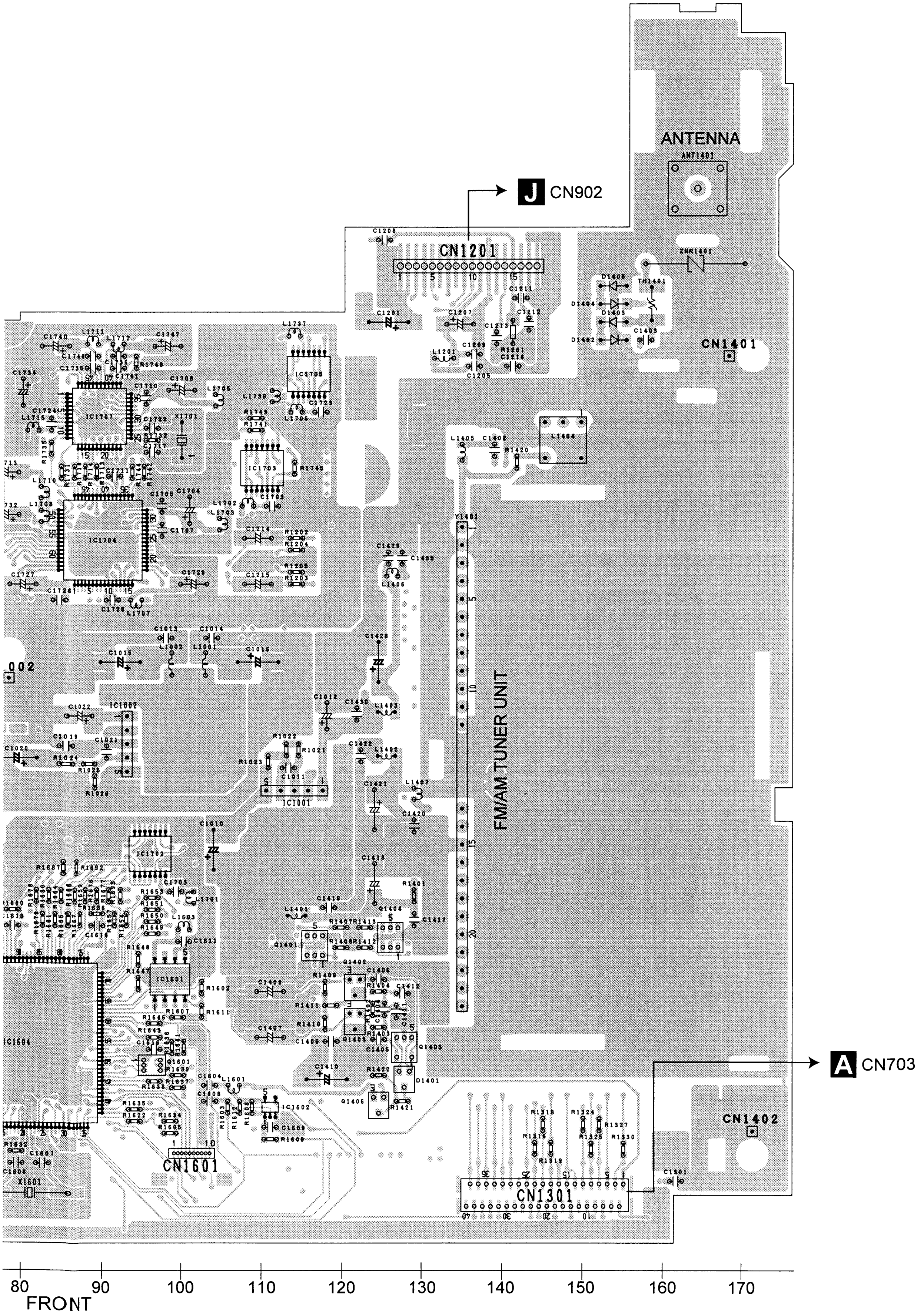
4.4 AUDIO PCB

D AUDIO PCB


C CN2061
CN1102
C CN2051
CN1101
CN1001
CN1002
IC1604
IC1603
IC1901
IC1902
IC1801
IC1802
X1601
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
X
10
20
30
40
50
60
70
80
90
FRONT

D

SIDE A


ANTENNA
ANT1401
J CN902
CN1201
ZNR1401
TH1401
CN1401
L1404
Y1401
FM/AM TUNER UNIT
IC1707
IC1705
IC1703
IC1704
IC1002
IC1001
IC1702
IC1601
IC1604
CN1601
X1601
A CN703
CN1402
CN1301
80
90
100
110
120
130
140
150
160
170
FRONT

A
B
C
D
E
F

D

D AUDIO PCB

A

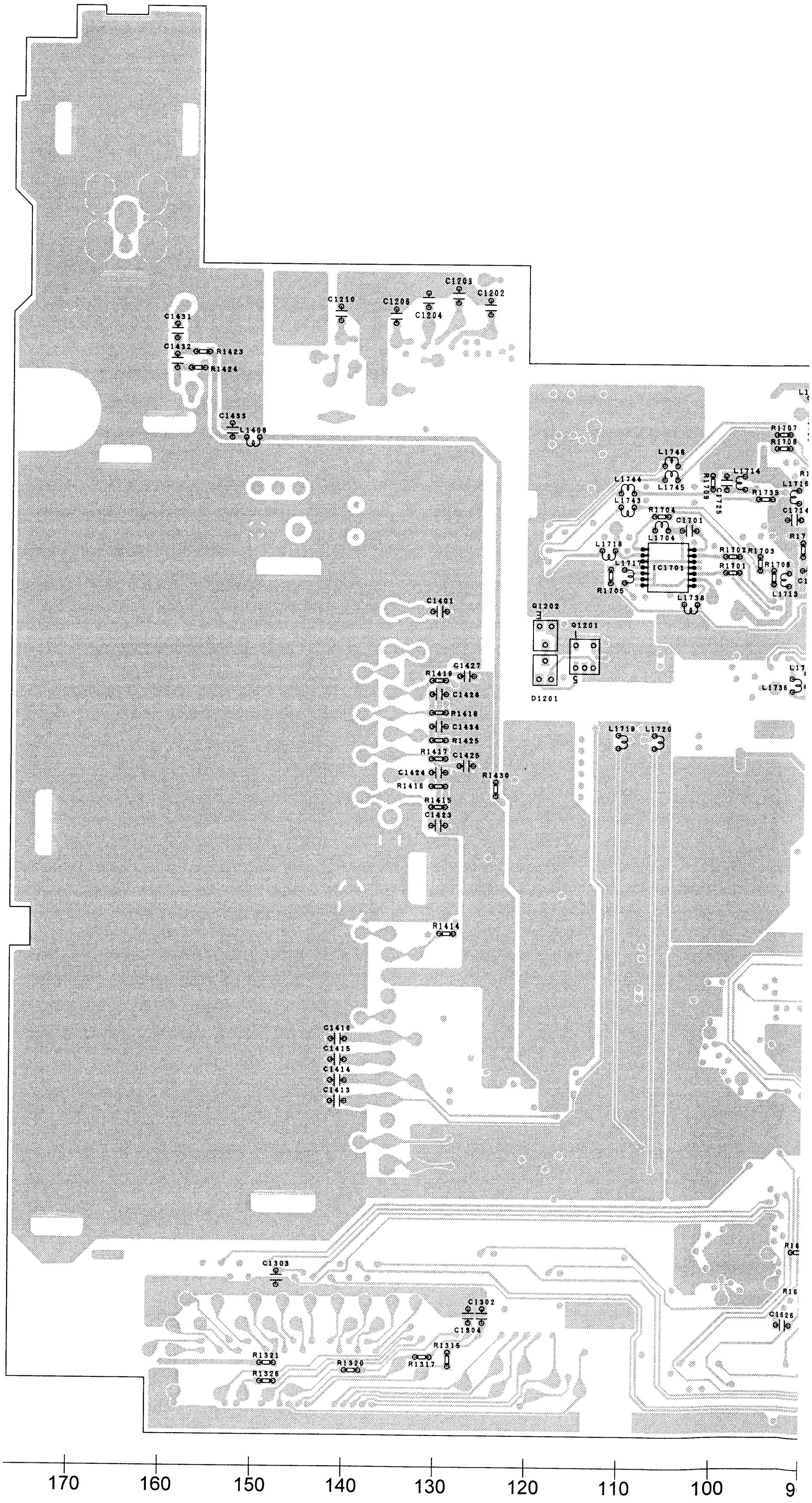
B

C

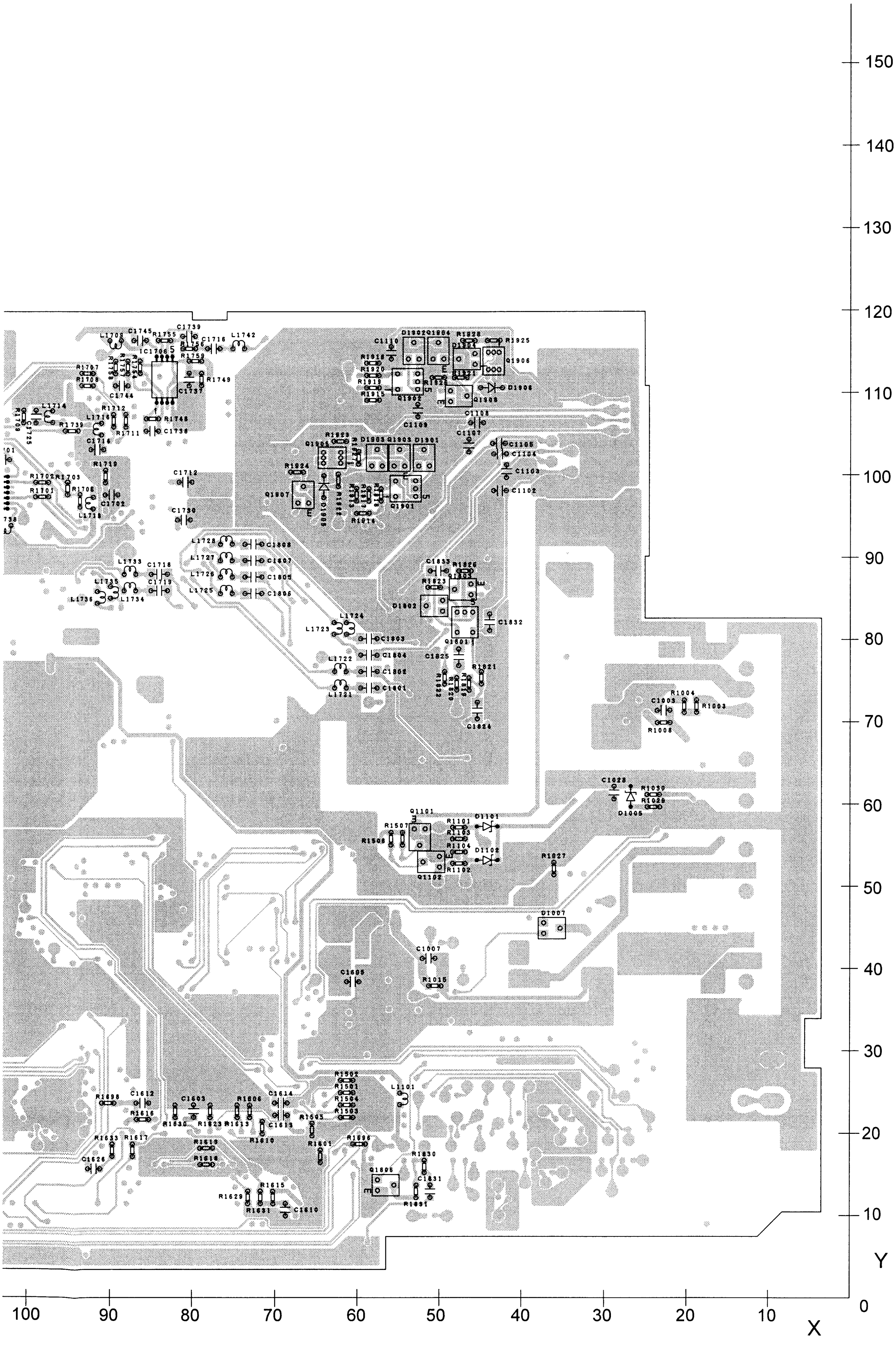
D

E

F


C1431
C1432
R1423
R1424
C1433
L1406
C1210
C1205
C1204
C1203
C1202
C1401
C1427
R1419
C1426
R1418
C1434
R1425
R1417
C1425
C1424
R1416
R1430
R1415
C1423
R1414
C1416
C1415
C1414
C1413
C1303
C1302
C1304
R1315
R1321
R1320
R1317
R1326
Q1202
Q1201
D1201
L1766
L1744
L1745
L1743
R1709
C1725
L1714
R1707
R1708
R1739
R1704
C1701
L1704
L1718
L1717
IC1701
R1702
R1703
R1701
R1706
R1705
L1713
L1738
L1736
L1719
L1720
C1626
170
160
150
140
130
120
110
100
9

SIDE B


150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
Y
100
90
80
70
60
50
40
30
20
10
X
L1706
C1745
R1755
C1739
C1716
L1742
IC1706
R1756
R1749
R1707
R1708
C1764
C1737
L1714
L1716
R1712
R1711
R1748
C1738
R1739
C1725
C1718
R1719
C1712
R1702
R1703
R1701
R1705
L1718
C1702
C1730
L1728
L1727
L1729
L1725
C1808
C1807
C1805
C1806
L1733
L1735
L1734
L1736
C1718
C1719
L1724
L1723
L1722
L1721
C1803
C1804
C1802
C1801
C1110
D1902
D1904
R1928
R1925
R1918
R1920
R1913
R1915
Q1902
Q1906
Q1908
D1906
C1109
C1108
C1107
C1105
C1104
C1103
C1102
R1922
Q1905
D1905
D1903
D1901
R1924
Q1907
Q1901
R1919
C1833
R1826
R1823
Q1803
D1802
Q1801
C1832
C1825
R1821
R1822
C1824
R1004
C1003
R1003
R1005
C1023
R1030
R1029
D1005
Q1101
D1101
R1507
R1101
R1103
R1104
R1508
D1102
R1102
Q1102
R1827
D1007
C1007
C1608
R1015
R1502
R1501
R1504
R1503
L1101
R1698
C1612
C1603
R1606
C1614
R1616
R1630
R1623
R1613
C1613
R1505
R1633
R1617
R1610
R1619
R1601
R1896
C1626
R1618
R1830
Q1805
C1831
R1615
R1629
R1631
C1610
R1831

A

B

C

D

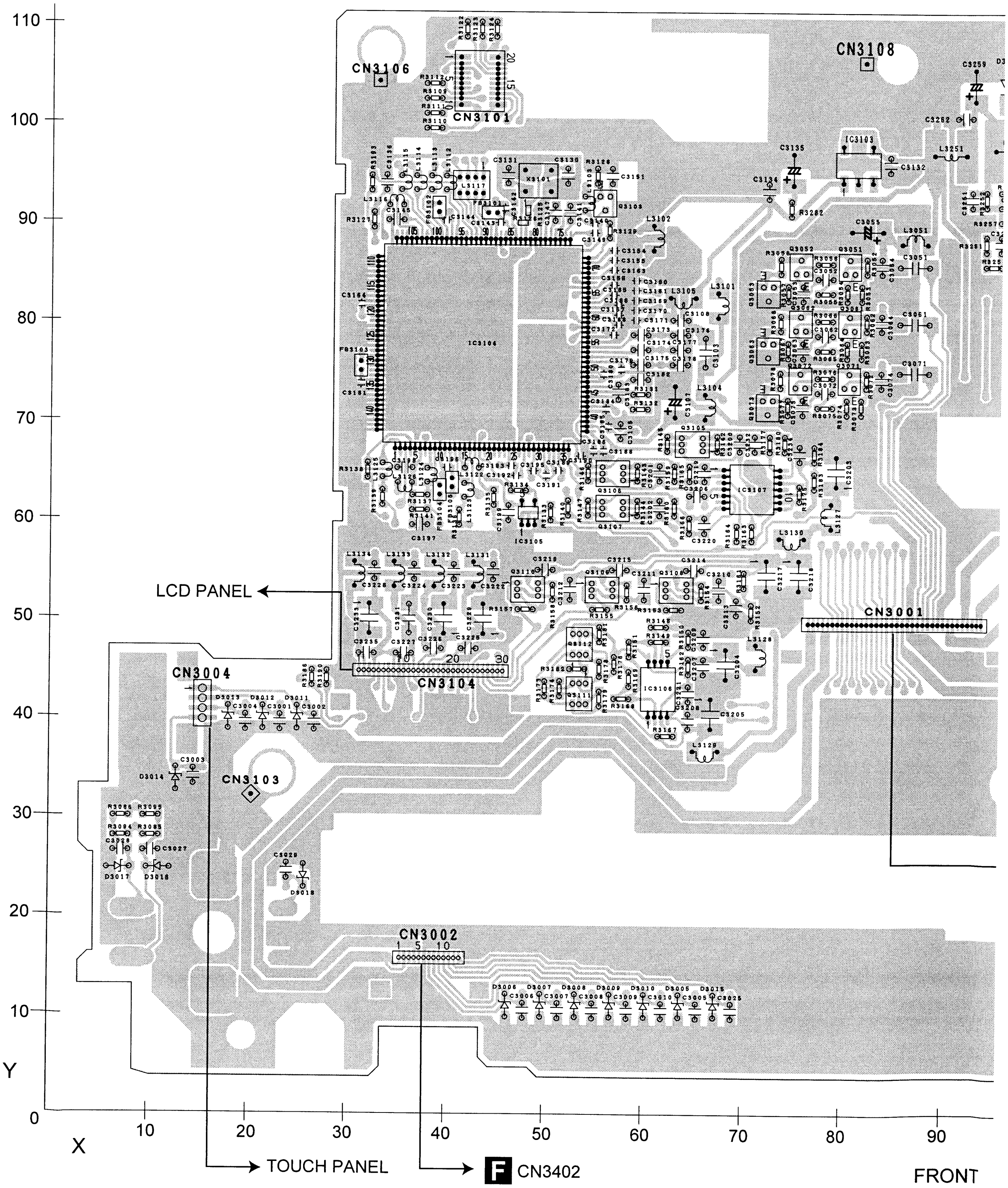
E

F

D

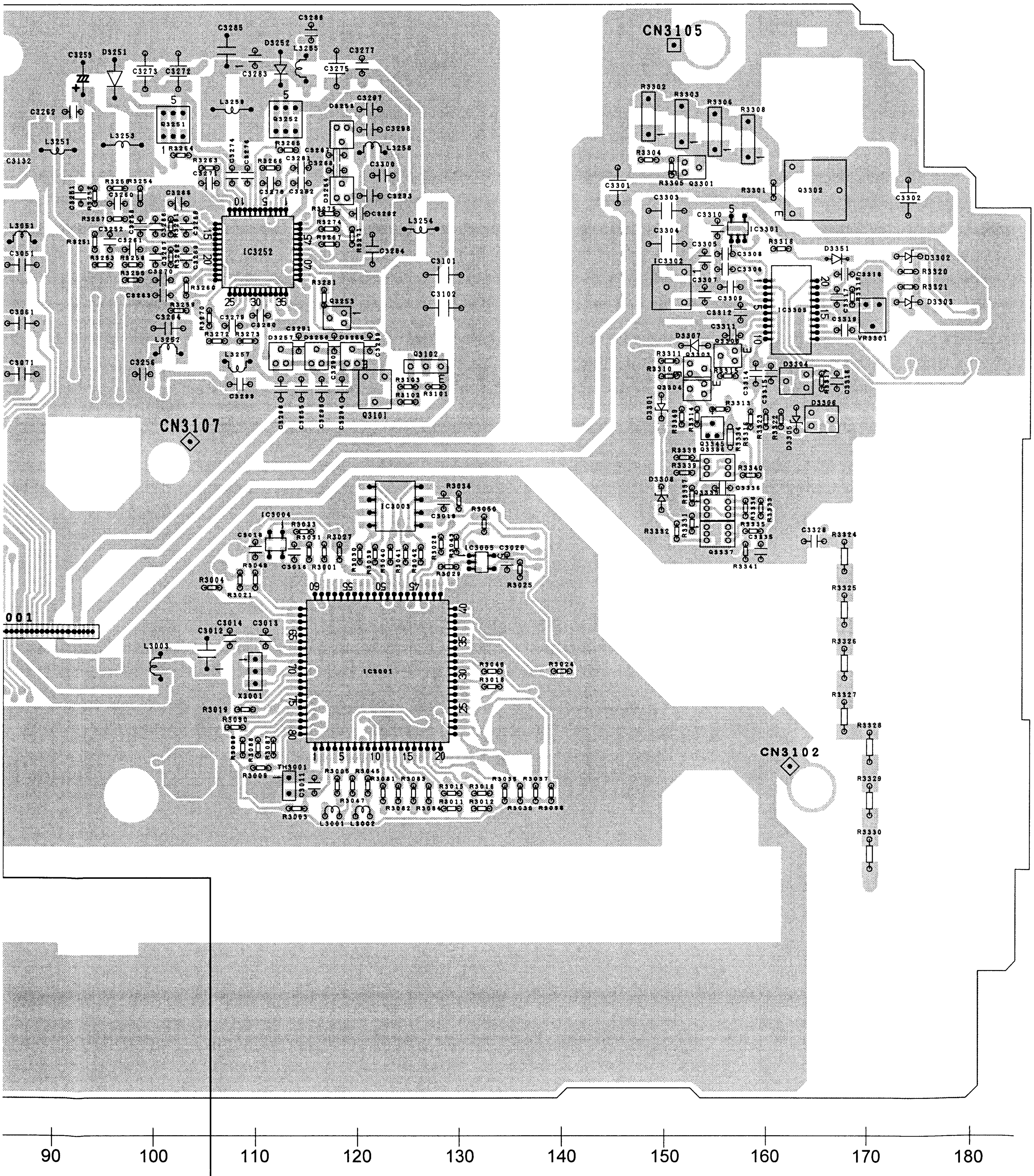
4.5 MONITOR PCB

E MONITOR PCB


CN3106
CN3101
CN3108
IC3103
IC3104
IC3105
IC3107
IC3106
LCD PANEL
CN3104
CN3001
CN3004
CN3103
CN3002
Y
X
0
10
20
30
40
50
60
70
80
90
100
110
TOUCH PANEL
F CN3402
FRONT

E

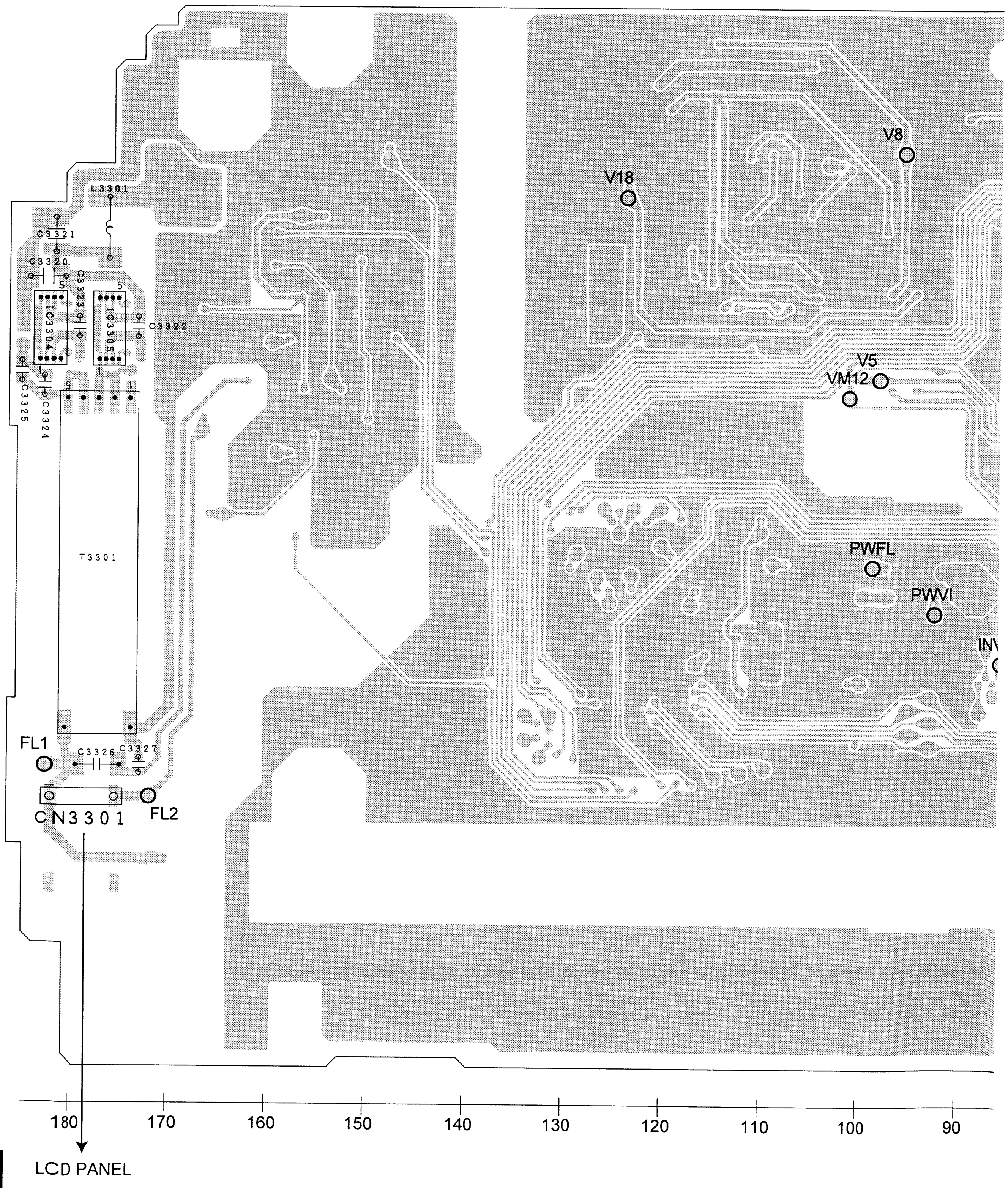
SIDE A


CN3105
CN3107
CN3102
IC3252
IC3001
IC3003
IC3004
IC3005
IC3301
IC3302
IC3303
Q3251
Q3252
Q3253
Q3101
Q3102
Q3301
Q3302
X3001
VR3301
TH3001
L3001
L3002
L3003
L3251
L3253
L3254
L3256
L3257
L3259
D3251
D3252
D3351
D3302
D3303
001
90
100
110
120
130
140
150
160
170
180

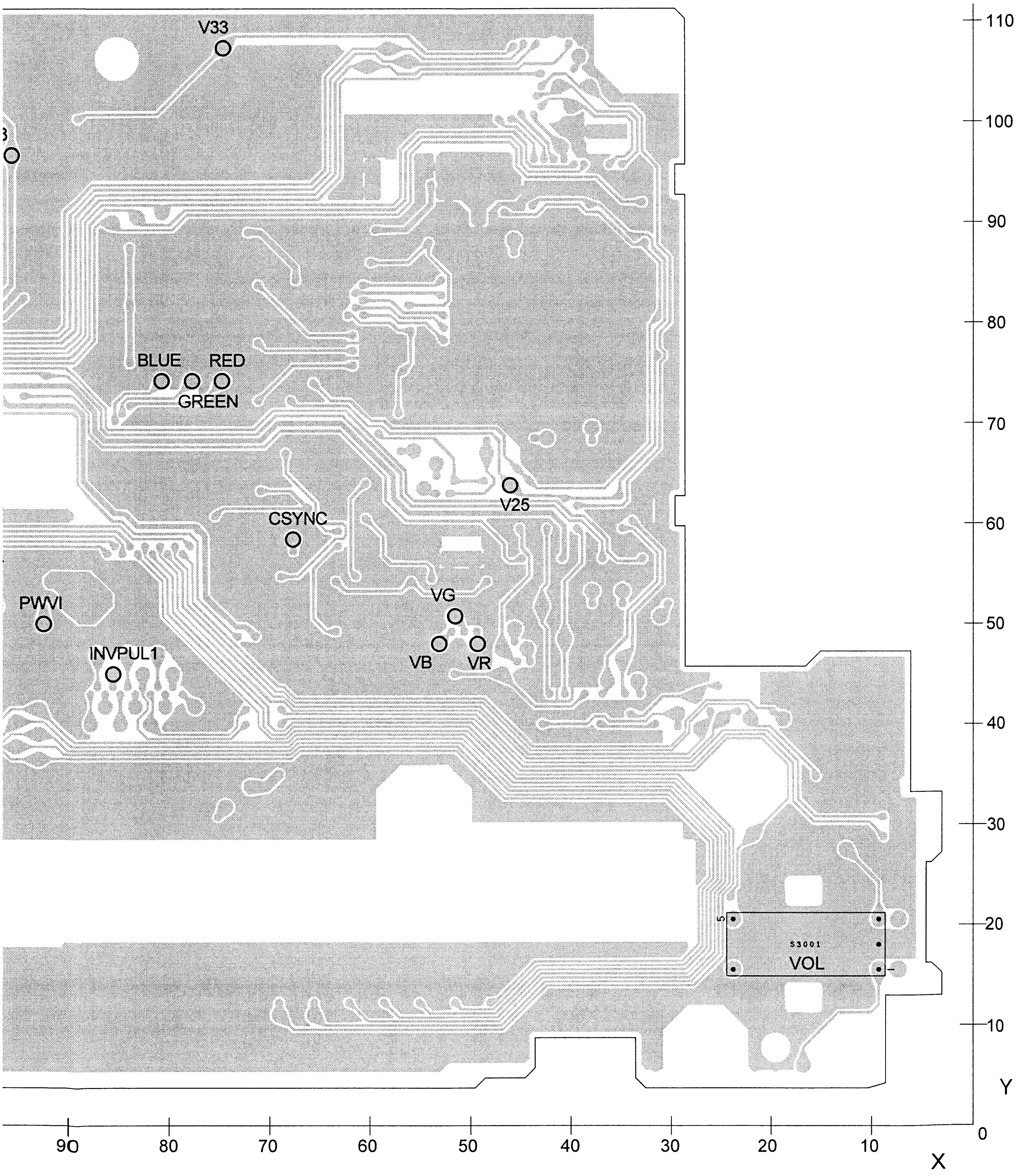
FRONT

→ **A** CN601

E MONITOR PCB

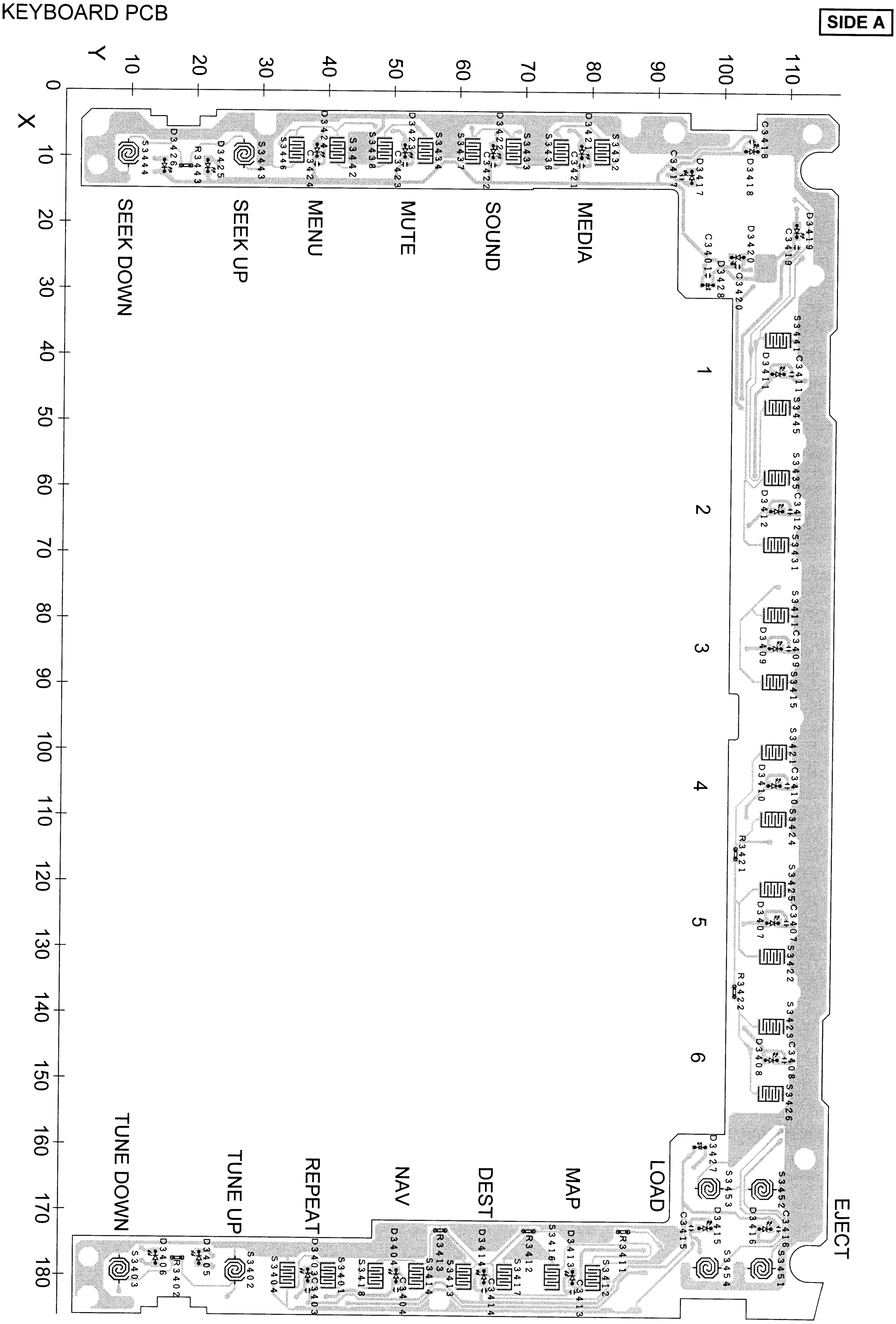

L3301
C3321
C3320
C3323
IC3304
IC3305
C3322
5
1
C3325
C3324
T3301
FL1
C3326
C3327
CN3301
FL2
V18
V8
V5
VM12
PWFL
PWVI
INV
180
170
160
150
140
130
120
110
100
90
E
LCD PANEL

SIDE B


V33
BLUE
RED
GREEN
V25
CSYNC
PWVI
INVPUL1
VG
VB
VR
S3001
VOL
Y
X

4.6 KEYBOARD PCB

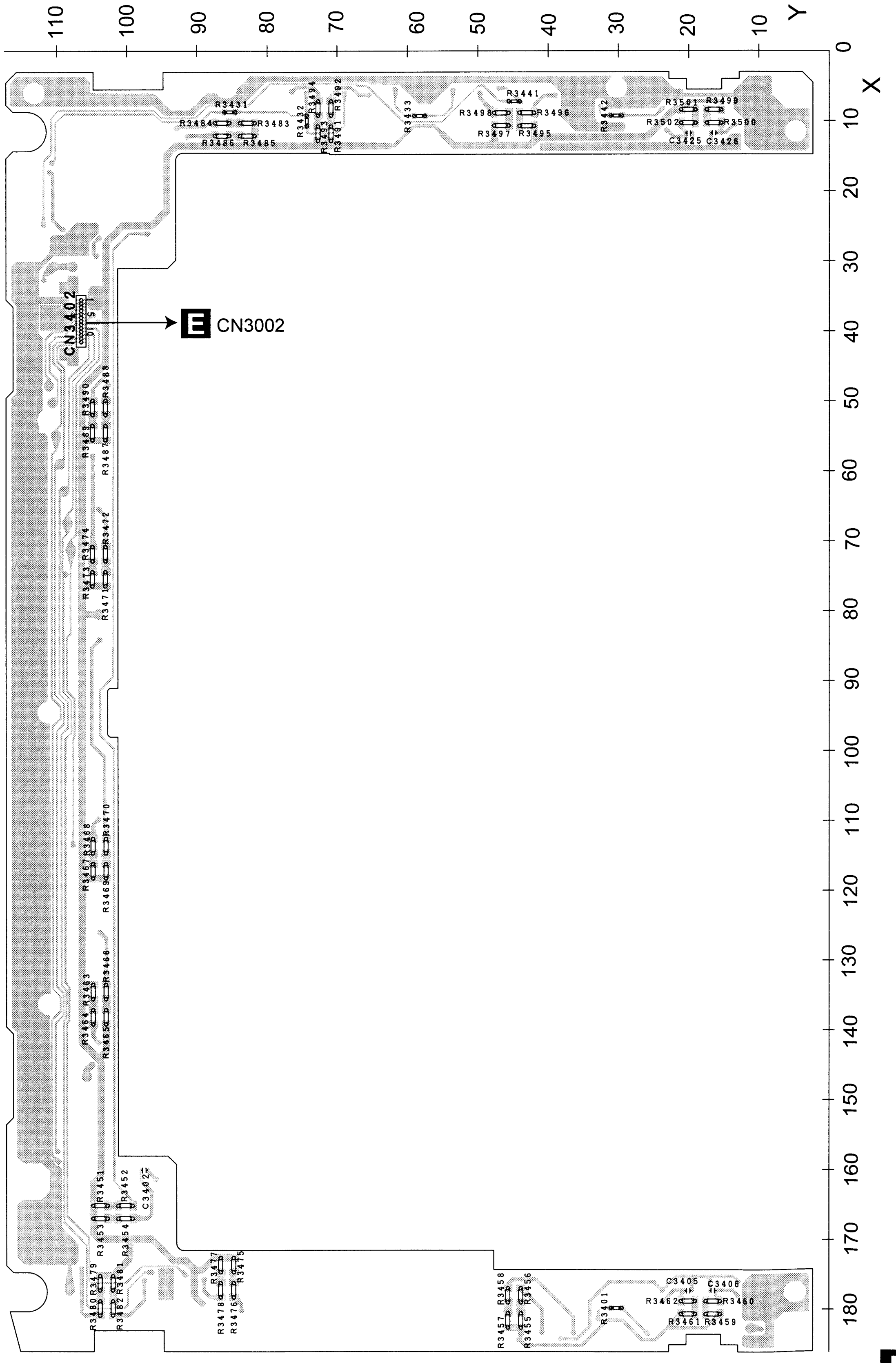
F KEYBOARD PCB


SIDE A
Y
X
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
SEEK DOWN
SEEK UP
MENU
MUTE
SOUND
MEDIA
1
2
3
4
5
6
TUNE DOWN
TUNE UP
REPEAT
NAV
DEST
MAP
LOAD
EJECT
S3444
D3426
R3443
D3425
S3443
S3446
D3424
C3424
S3442
S3438
D3423
C3423
S3434
S3437
D3422
C3422
S3433
S3436
D3421
C3421
S3432
C3418
D3418
D3417
C3417
D3419
C3419
D3420
C3401
D3428
C3420
S3441
C3411
D3411
S3445
S3435
C3412
D3412
S3431
S3411
C3409
D3409
S3415
S3421
C3410
D3410
S3424
R3421
S3425
C3407
D3407
S3422
R3422
S3423
C3408
D3408
S3426
D3427
S3453
S3452
C3416
D3416
C3415
D3415
S3454
S3451
S3403
D3406
R3402
D3405
S3402
S3404
D3403
C3403
S3401
S3418
D3404
C3404
R3413
S3414
S3413
D3414
C3414
R3412
S3417
S3416
D3413
C3413
R3411
S3412

F

F KEYBOARD PCB

SIDE B


Y
110
100
90
80
70
60
50
40
30
20
10
0
X
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
R3431
R3484
R3483
R3486
R3485
R3432
R3494
R3492
R3493
R3491
R3433
R3441
R3498
R3496
R3497
R3495
R3442
R3501
R3499
R3502
R3500
C3425
C3426
CN3402
E CN3002
R3490
R3488
R3489
R3487
R3474
R3472
R3473
R3471
R3468
R3470
R3467
R3469
R3463
R3466
R3464
R3465
R3451
R3452
C3402
R3453
R3454
R3479
R3481
R3480
R3482
R3477
R3475
R3478
R3476
R3458
R3456
R3457
R3455
R3401
C3405
C3406
R3462
R3460
R3461
R3459

A
B
C
D
E
F

F

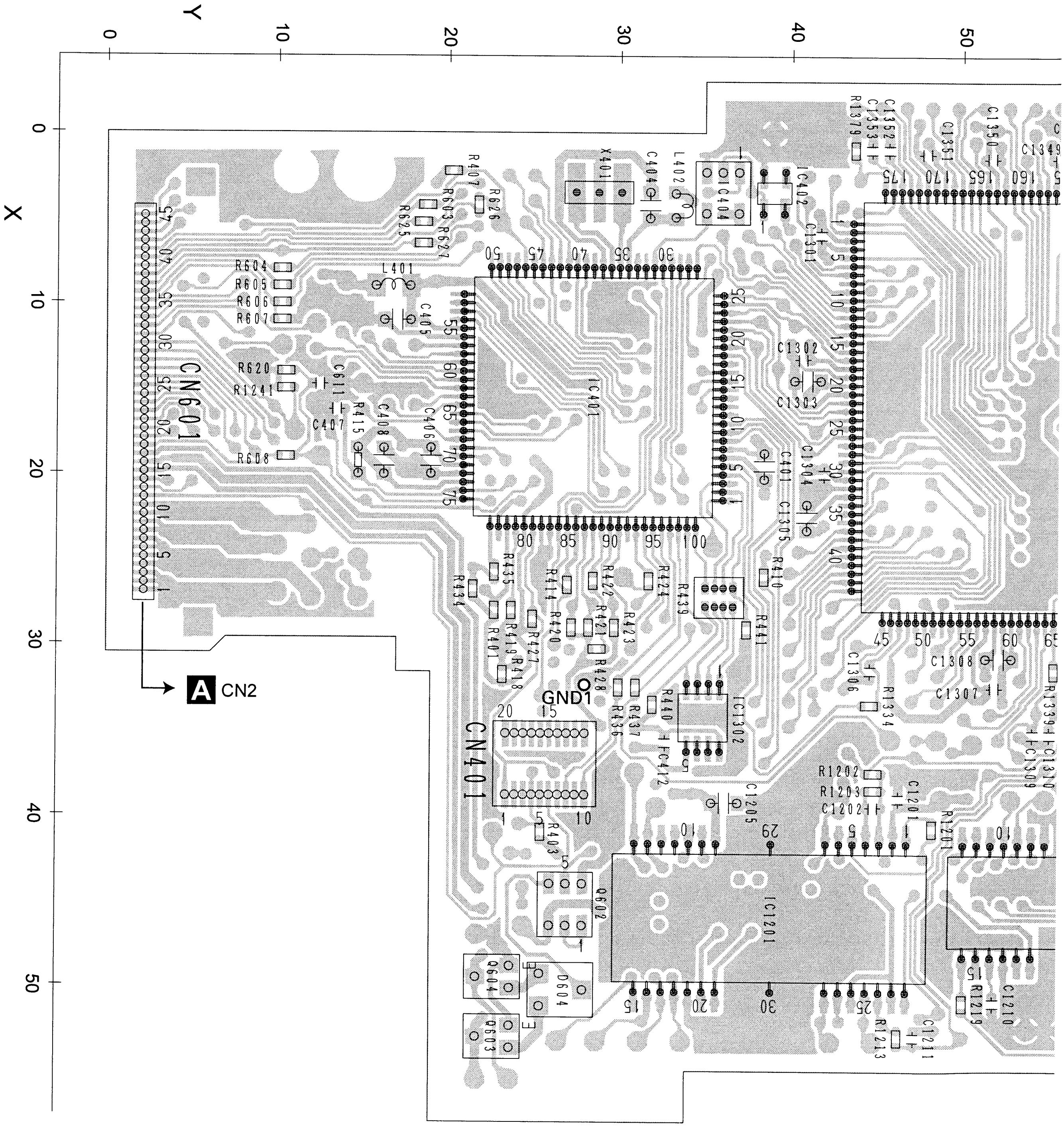
4.7 DVD CORE UNIT(MS3R)

A

G DVD CORE UNIT (MS3R)

B

C

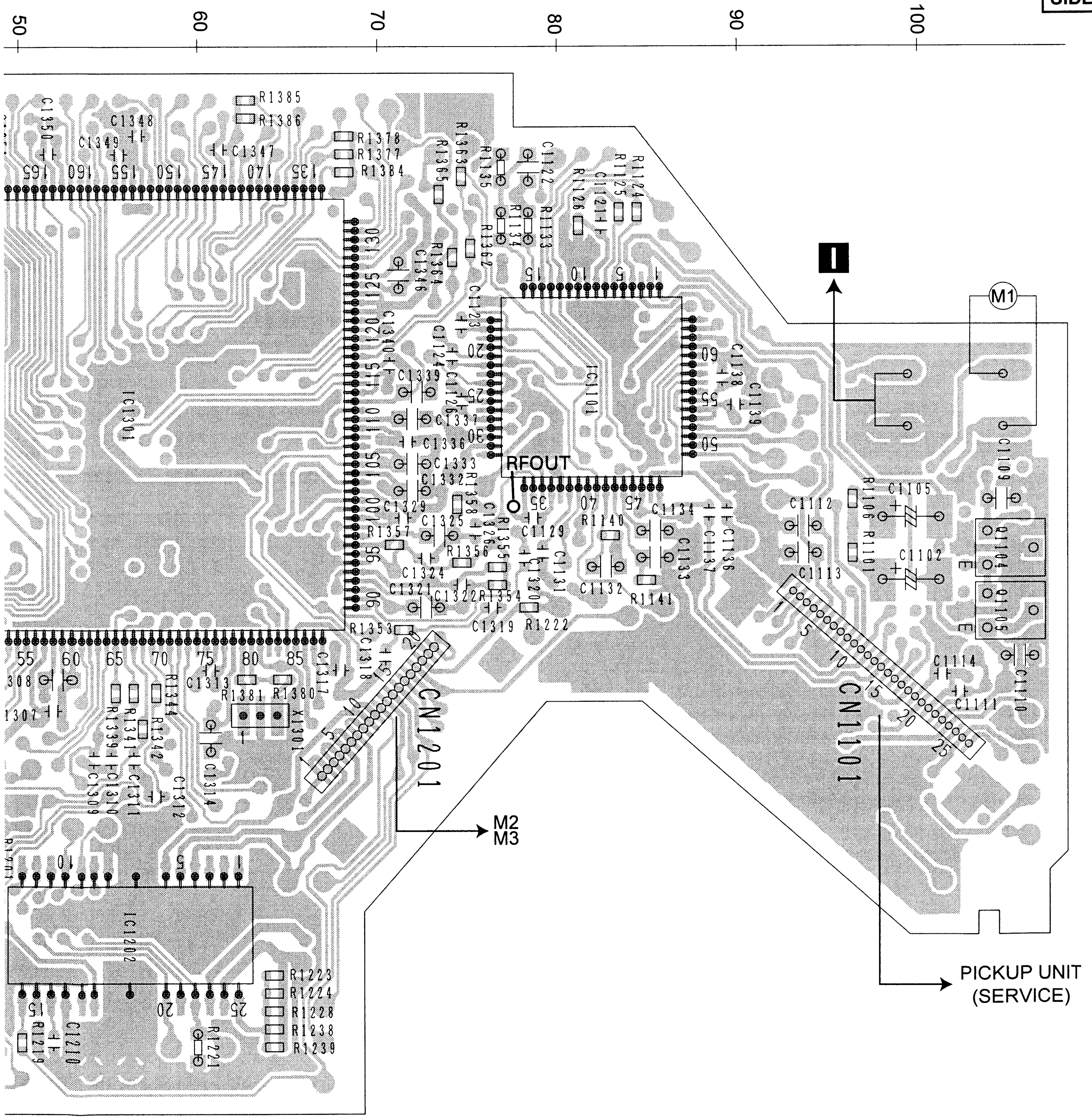

Y
0
10
20
30
40
50
X
0
10
20
30
40
50
CN601
CN401
GND1
IC401
IC402
IC404
IC1201
IC1302
X401
L401
L402
Q602
Q603
Q604
D604
R407
R626
R603
R627
R625
R604
R605
R606
R607
R620
R1241
R608
R415
R435
R434
R414
R420
R422
R421
R423
R424
R439
R410
R441
R419
R401
R427
R418
R428
R440
R437
R436
R403
R1334
R1339
R1202
R1203
R1201
R1219
R1213
R1379
C404
C405
C406
C407
C408
C611
C401
C1301
C1302
C1303
C1304
C1305
C1306
C1307
C1308
C1309
C1310
C412
C1205
C1201
C1202
C1210
C1211
C1349
C1350
C1351
C1352
C1353
A CN2

D

E

F **G**

SIDE A


50
60
70
80
90
100
IC1301
IC1101
IC1202
RFOUT
CN1201
CN1101
X1301
M1
I
M2
M3
PICKUP UNIT
(SERVICE)

A

G DVD CORE UNIT (MS3R)

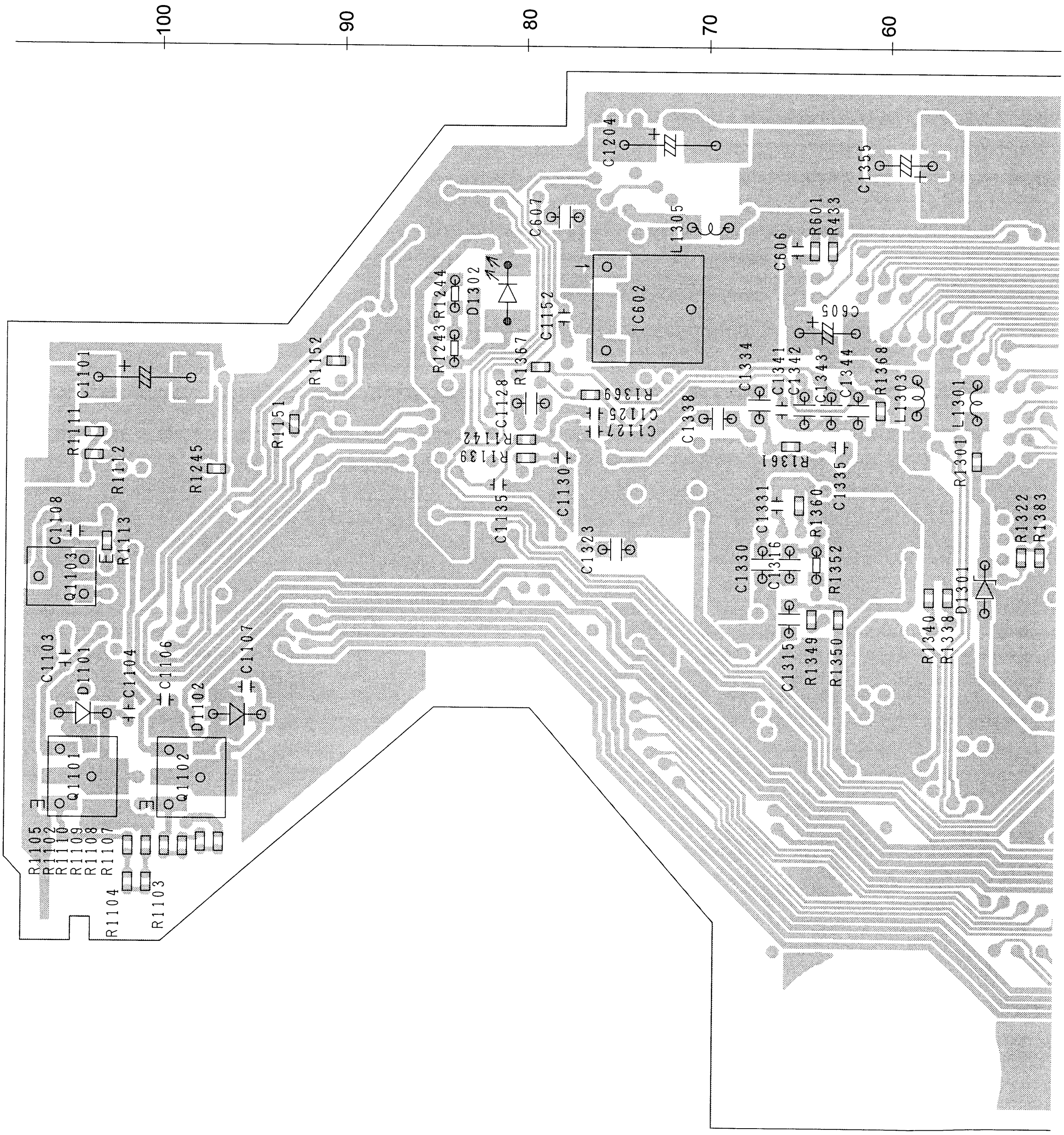
B

C

D

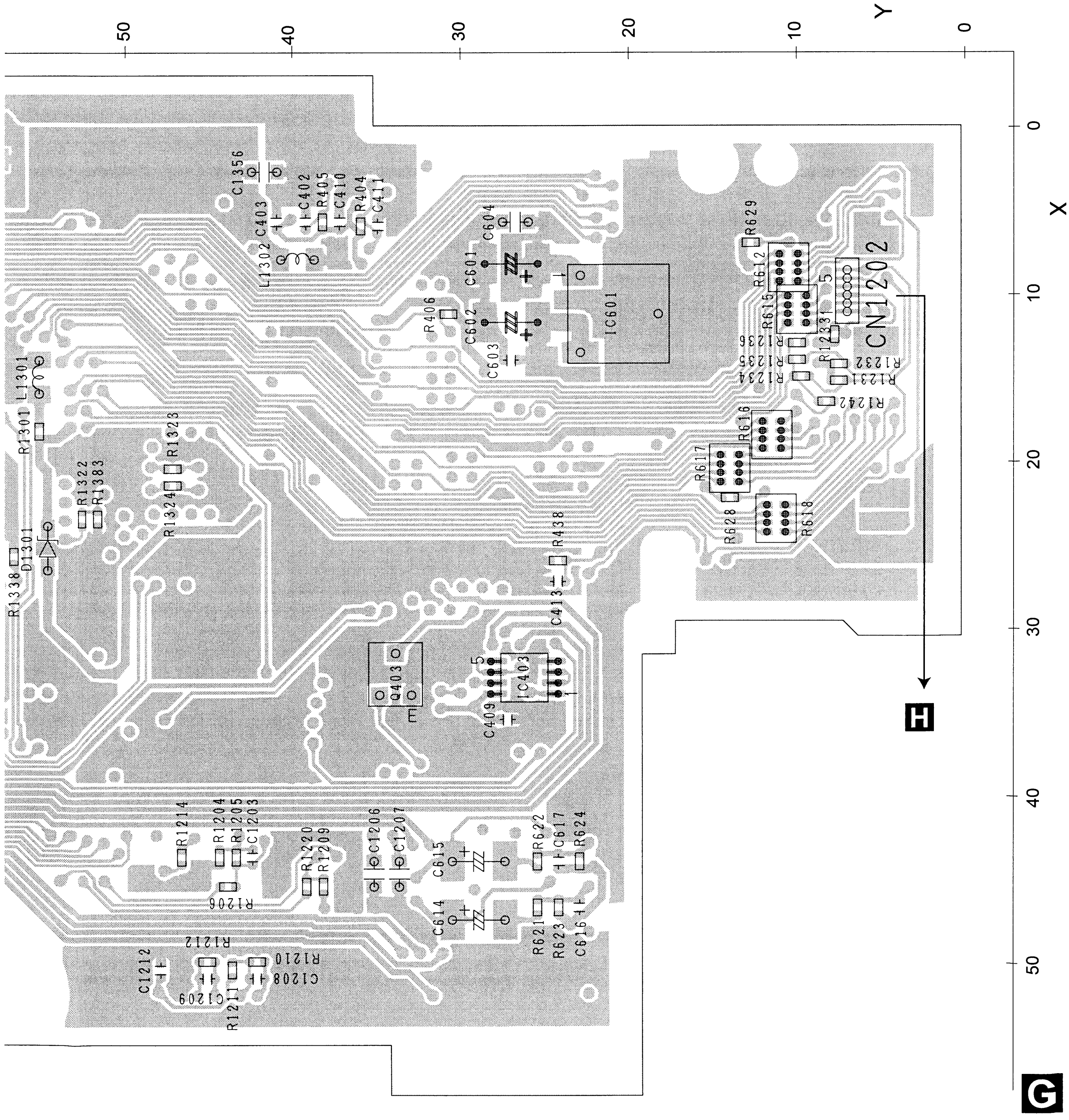
E

F


100
90
80
70
60
C1204
C1355
C607
L1305
R601
R433
C606
R1244
R1243
D1302
C1152
IC602
C605
R1152
R1367
C1101
R1111
R1151
C1128
R1369
C1125
C1127
C1338
C1334
C1341
C1342
C1343
C1344
R1368
L1303
L1301
R1142
R1139
R1112
R1245
C1130
R1361
C1335
R1301
C1108
R1113
C1135
C1331
R1360
C1323
R1322
R1383
Q1103
C1330
C1316
R1352
D1301
C1103
C1106
C1107
D1101
C1104
D1102
C1315
R1349
R1350
R1340
R1338
Q1101
Q1102
E
R1105
R1102
R1110
R1109
R1108
R1107
R1104
R1103

G

SIDE B

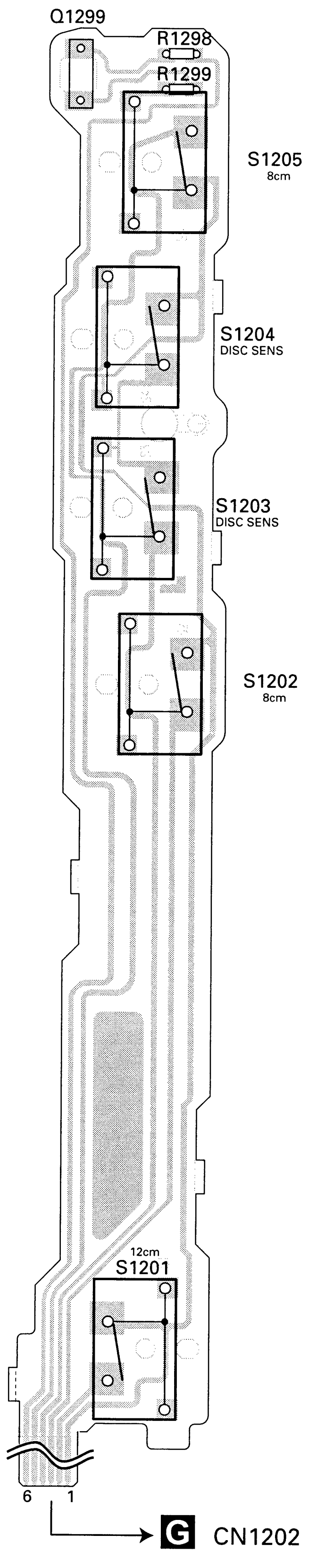

Y
50
40
30
20
10
0
X
0
10
20
30
40
50
C1356
C403
C402
R405
C410
R404
C411
L1302
C604
C601
C602
C603
R406
IC601
R629
R612
R615
CN1202
5
R1236
R1235
R1234
R1233
R1232
R1231
R1242
R616
R617
R628
R618
L1301
R1301
R1323
R1322
R1383
R1324
D1301
R1338
R438
C413
Q403
E
IC403
5
C409
R1214
R1204
R1205
C1203
R1206
R1220
R1209
C1206
C1207
C615
C614
R622
C617
R624
R621
R623
C616
C1212
R1212
R1210
C1208
C1209
R1211
H
G

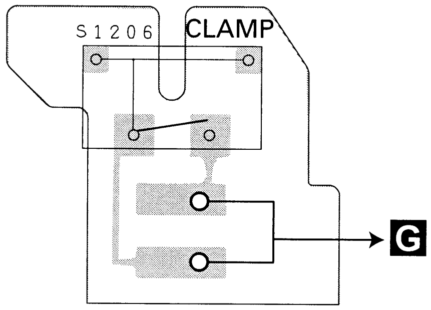
A
B
C
D
E
F

4.8 COMPOUND UNIT(A) AND COMPOUND UNIT(B)

H COMPOUND UNIT(A)

I COMPOUND UNIT(B)

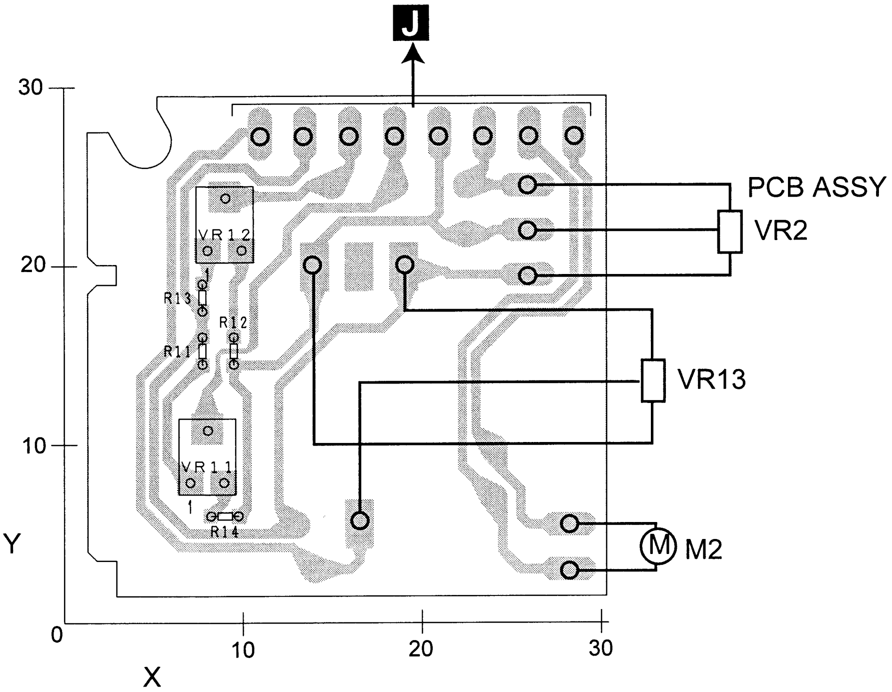

Q1299
R1298
R1299
S1205
8cm
S1204
DISC SENS
S1203
DISC SENS
S1202
8cm
12cm
S1201
6
1
G
CN1202


S1206
CLAMP
G

H I

4.9 RPS PCB ASSY

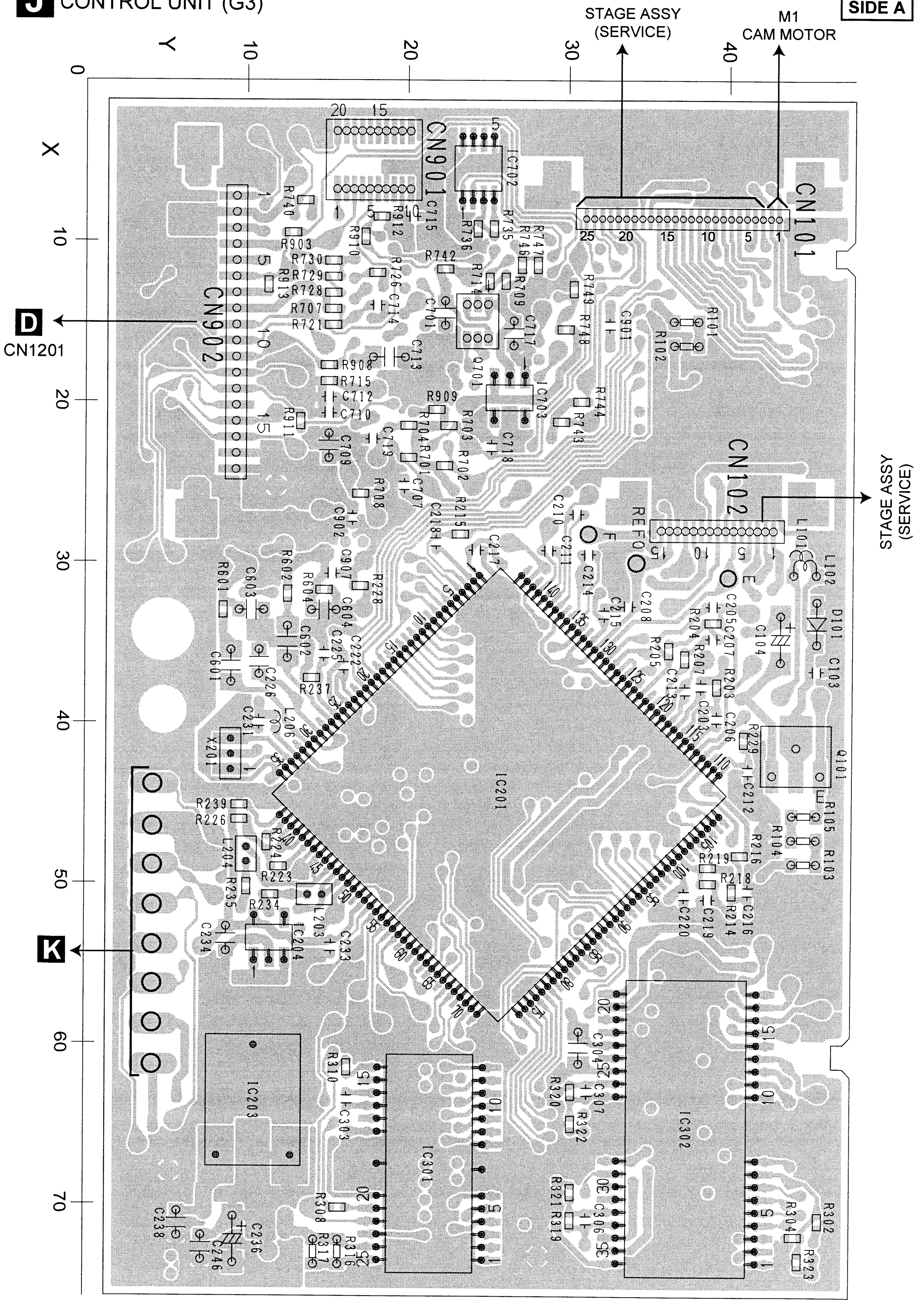
K RPS PCB ASSY


J
30
20
10
0
Y
X
10
20
30
VR12
R13
R12
R11
VR11
1
R14
PCB ASSY
VR2
VR13
M
M2

4.10 CONTROL UNIT(G3)

J CONTROL UNIT (G3)

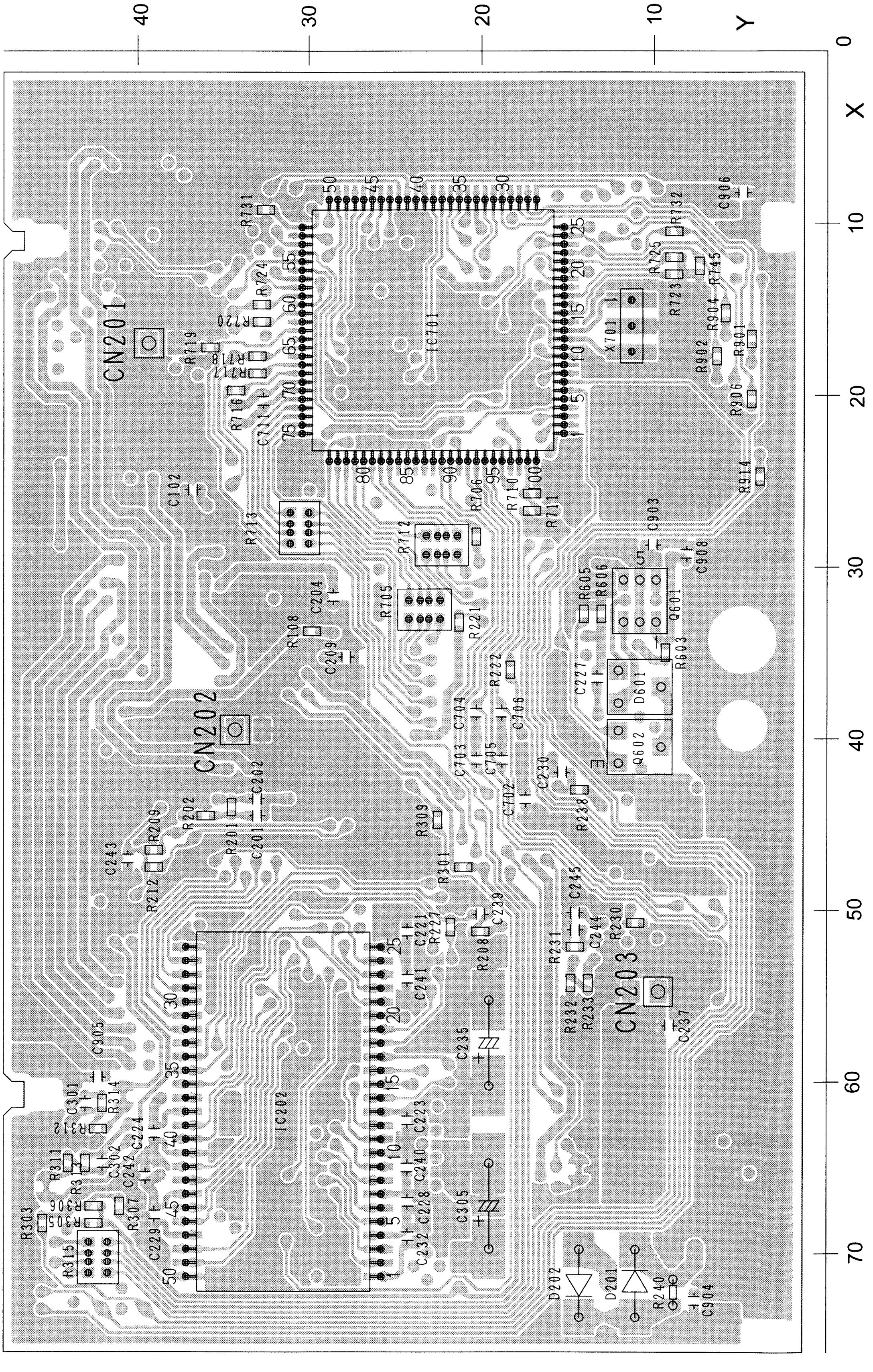
SIDE A


STAGE ASSY
(SERVICE)
M1
CAM MOTOR
STAGE ASSY
(SERVICE)
D
CN1201
K
Y
X
0
10
20
30
40
50
60
70
CN101
CN102
CN901
CN902
IC702
IC703
IC201
IC202
IC203
IC204
IC301
IC302
Q101
Q701
X201
L101
L102
L203
L204
L206
D101
REFO
F
E
R101
R102
R103
R104
R105
C103
C104

J

J CONTROL UNIT (G3)

SIDE B



40
30
20
10
Y
0
X
10
20
30
40
50
60
70
CN201
CN202
CN203
IC701
IC202
X701
Q601
Q602
D601
D201
D202
R731
R724
R720
R719
R718
R717
R716
C711
R713
C102
R108
C204
C209
R712
R705
R706
R710
R711
R221
R222
C703
C704
C705
C706
C702
C230
R238
R309
R301
C245
C244
R230
R231
R232
R233
C237
C239
R208
C221
R227
C241
C235
C305
C202
C201
R201
R202
R209
R212
C243
C905
C301
R314
R312
C224
R311
R313
C302
C242
R306
R305
R307
R303
R315
C229
C223
C240
C228
C232
R240
C904
C906
R732
R725
R723
R745
R904
R901
R902
R906
R914
C903
C908
R605
R606
R603
C227

5. ELECTRICAL PARTS LIST

NOTE:

- *Parts whose parts numbers are omitted are subject to being not supplied.*
- *The part numbers shown below indicate chip components.*

  Chip Resistor

  RS1/○S○○○J,RS1/○○S○○○J

  Chip Capacitor (except for CQS.....)

  CKS....., CCS....., CSZS.....
- *The ⚠ mark found on some component parts indicatesthe importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Meaning of the figures and others in the parentheses in the parts list.*

  Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

  IC 301 (A, 91, 111) IC NJM2068V

A

Unit Number:CWM9494
Unit Name:Navi Unit

MISCELLANEOUS

Circuit Symbol and No.		Part No.
IC 1	(B,80,43) IC	K4S561632E-TL75
IC 2	(A,83,64) IC	UPD705103GM-180S1
IC 3	(B,96,43) IC	K4S561632E-TL75
IC 4	(A,99,34) IC	TC7SZ08FU
IC 5	(B,88,67) IC	PD6336C
IC 101	(A,76,30) IC	TC74LCX08FTS1
IC 102	(A,78,24) IC	TC7SH04FUS1
IC 103	(A,76,41) IC	TC74LCX245FTS1
IC 104	(A,84,41) IC	TC74LCX245FTS1
IC 105	(A,93,41) IC	TC74LCX245FTS1
IC 106	(A,101,41) IC	TC74LCX245FTS1
IC 107	(A,104,50) IC	TC74LCX541FTS1
IC 108	(A,104,59) IC	TC74LCX541FTS1
IC 109	(A,104,67) IC	TC74LCX541FTS1
IC 110	(B,59,52) IC	PEH001B
IC 111	(B,59,37) IC	PEH002B
IC 112	(B,48,75) IC	TC7SH00FUS1
IC 113	(B,60,70) IC	M5M5V216ATP-70HI
IC 114	(B,48,71) IC	TC7SH08FUS1
IC 201	(A,46,38) IC	MB86291APFVS-G-DL
IC 301	(A,86,32) IC	M51957BFP
IC 302	(A,83,22) IC	TC7WH08FU
IC 303	(A,133,93) IC	NJM2068V
IC 304	(A,37,67) IC	AK4351VT
IC 305	(A,37,73) IC	AK5381VT
IC 307	(A,124,87) IC	TC7S66F
IC 308	(A,112,109) IC	NJM2068V
IC 601	(A,102,9) IC	TC7SH00FUS1
IC 701	(A,126,34) IC	TC7SH08FUS1
IC 702	(A,63,61) IC	TC7SH08FUS1
IC 703	(A,134,29) IC	TC74VHCT08AFTS1
IC 801	(A,10,94) IC	LP3965ES-ADJ
IC 803	(B,44,105) IC	TPS5102IDBT
IC 806	(A,153,62) IC	S-L2980A33MC-C6S
IC 3502	(A,131,101) IC	S-812C50AUA-C3E
IC 3701	(A,146,144) IC	LM20BIM7
IC 3702	(A,123,28) IC	TC7S02FU
IC 3703	(A,127,28) IC	TC7SH00FUS1
IC 3704	(B,143,110) IC	TC7SH04FUS1
Q 201	(A,67,23) Transistor	UMD2N
Q 301	(A,92,34) Transistor	DTC114EU
Q 302	(B,114,108) Transistor	UMD3N
Q 303	(B,117,106) Transistor	UMD3N
Q 304	(B,117,108) Transistor	UMD3N
Q 305	(B,114,102) Transistor	FMG12
Q 306	(B,111,107) Transistor	DTC323TU
Q 307	(A,120,84) Transistor	IMD3A
Q 601	(B,86,8) Transistor	2SA1576
Q 602	(B,94,8) Transistor	2SA1576
Q 603	(B,102,8) Transistor	2SA1576
Q 801	(B,43,89) Transistor	DTC114EU
Q 803	(B,10,119) Transistor	2SA1834F5
Q 804	(B,5,123) Transistor	2SC4081
Q 805	(B,51,118) Transistor	DTC114EU
Q 806	(B,32,114) FET	RK4936
Q 807	(B,32,95) FET	RK4936
Q 3501	(A,38,149) Transistor	2SB1185
Q 3502	(B,30,133) Transistor	IMX1
Q 3503	(B,84,123) Transistor	2SC4081
Q 3504	(B,81,123) Transistor	2SC4081
Q 3505	(B,41,128) Transistor	DTC114EU
Q 3506	(B,43,132) Transistor	2SA1587
Q 3508	(B,116,121) Transistor	2SB1184F5
Q 3509	(A,105,125) Transistor	IMX1
Q 3512	(B,52,130) Transistor	DTC114EU
Q 3513	(A,49,149) Transistor	2SD2375
Q 3514	(A,155,12) Transistor	2SB1185
Q 3515	(A,150,44) Transistor	DTC144EU
Q 3516	(A,156,49) Transistor	2SA1576
Q 3517	(A,154,43) Transistor	2SD1767
Q 3518	(B,147,6) Transistor	IMX1
Q 3701	(B,140,109) Transistor	DTC123JU
D 301	(A,107,103) Diode	UDZS5R1(B)
D 302	(A,113,102) Diode	HZU3R9(B2)

Circuit Symbol and No.		Part No.
D 303	(A,113,104) Diode	1SS355
D 801	(B,37,107) Diode	RB400D
D 802	(B,37,103) Diode	RB400D
D 803	(A,36,107) Diode	RB060L-40
D 804	(A,36,103) Diode	RB060L-40
D 3501	(B,32,138) Diode	HZU7R5(B2)
D 3502	(A,115,126) Diode	HZU6R8(B2)
D 3503	(B,41,138) Diode	RSX201L-30
D 3504	(B,48,127) Diode	RB500V-40
D 3505	(B,53,133) Diode	HZU10(B2)
D 3506	(B,114,133) Diode	KS926S2
D 3508	(A,150,40) Diode	UDZS5R6(B)
D 3509	(B,88,120) Diode	HZU7R5(B3)
D 3510	(B,83,118) Diode	UDZS20(B)
D 3511	(B,88,119) Diode	RB500V-40
D 3512	(B,88,117) Diode	RB500V-40
L 1	(B,72,29) Inductor	CTF1558
L 2	(B,87,30) Inductor	CTF1558
L 3	(A,99,30) Inductor	CTF1557
L 5	(A,79,45) Inductor	CTF1556
L 6	(A,71,43) Inductor	CTF1295
L 7	(B,102,67) Inductor	CTF1558
L 8	(A,89,81) Inductor	CTF1556
L 9	(B,12,69) Inductor	CTF1393
L 101	(A,73,28) Inductor	CTF1557
L 102	(A,74,25) Inductor	CTF1557
L 103	(A,80,41) Inductor	CTF1557
L 104	(A,89,40) Inductor	CTF1557
L 105	(A,97,40) Inductor	CTF1557
L 106	(A,105,40) Inductor	CTF1557
L 107	(A,104,46) Inductor	CTF1557
L 108	(A,104,54) Inductor	CTF1557
L 109	(A,104,63) Inductor	CTF1557
L 110	(B,45,49) Inductor	CTF1556
L 111	(B,45,33) Inductor	CTF1556
L 112	(B,48,67) Inductor	CTF1556
L 113	(B,50,72) Inductor	CTF1557
L 114	(B,50,67) Inductor	CTF1557
L 201	(A,67,41) Inductor	CTF1556
L 203	(A,27,23) Inductor	CTF1556
L 204	(A,46,57) Inductor	CTF1488
L 205	(A,68,28) Inductor	CTF1556
L 206	(A,30,59) Inductor	CTF1556
L 208	(B,103,12) Inductor	CTF1389
L 209	(B,95,12) Inductor	CTF1389
L 210	(B,87,12) Inductor	CTF1389
L 211	(A,103,12) Inductor	CTF1389
L 301	(A,82,31) Inductor	CTF1557
L 302	(A,86,26) Inductor	CTF1557
L 303	(A,124,84) Inductor	CTF1410
L 305	(A,45,67) Inductor	CTF1556
L 306	(A,45,73) Inductor	CTF1556
L 307	(A,44,69) Inductor	CTF1556
L 601	(B,106,12) Inductor	CTF1410
L 602	(A,104,12) Inductor	CTF1410
L 603	(A,32,9) Inductor	CTH1256
L 604	(A,54,11) Inductor	CTF1295
L 605	(A,75,10) Inductor	CTF1394
L 606	(A,66,14) Inductor	CTF1306
L 607	(A,65,11) Inductor	CTF1306

Circuit Symbol and No.		Part No.
L 608	(A,64,15) Inductor	CTF1306
L 609	(A,64,11) Inductor	CTF1306
L 610	(A,62,15) Inductor	CTF1306
L 611	(A,62,11) Inductor	CTF1306
L 612	(A,61,11) Inductor	CTF1306
L 613	(A,60,15) Inductor	CTF1306
L 614	(A,59,11) Inductor	CTF1306
L 615	(A,58,15) Inductor	CTF1306
L 616	(A,57,11) Inductor	CTF1306
L 617	(A,57,15) Inductor	CTF1306
L 618	(A,56,11) Inductor	CTF1306
L 619	(B,67,5) Inductor	CTF1334
L 620	(A,61,15) Inductor	CTF1306
L 701	(A,116,32) Inductor	CTF1306
L 702	(B,117,83) Inductor	CTF1306
L 703	(A,113,8) Inductor	CTF1306
L 704	(A,113,10) Inductor	CTF1306
L 705	(B,117,81) Inductor	CTF1306
L 706	(B,117,74) Inductor	CTF1306
L 707	(A,113,11) Inductor	CTF1306
L 708	(A,63,92) Inductor	CTF1306
L 709	(A,113,12) Inductor	CTF1306
L 710	(A,116,29) Inductor	CTF1306
L 711	(A,116,30) Inductor	CTF1306
L 712	(B,117,90) Inductor	CTF1334
L 713	(B,117,89) Inductor	CTF1334
L 714	(A,113,13) Inductor	CTF1306
L 715	(A,113,15) Inductor	CTF1334
L 716	(B,117,77) Inductor	CTF1389
L 717	(B,117,78) Inductor	CTF1389
L 718	(B,117,76) Inductor	CTF1389
L 719	(A,123,34) Inductor	CTF1410
L 720	(A,62,64) Inductor	CTF1410
L 721	(A,117,19) Inductor	CTF1306
L 722	(A,118,19) Inductor	CTF1306
L 723	(A,119,19) Inductor	CTF1306
L 724	(A,122,19) Inductor	CTF1306
L 725	(A,121,19) Inductor	CTF1306
L 726	(A,123,19) Inductor	CTF1334
L 727	(A,133,33) Inductor	CTF1410
L 728	(B,132,17) Inductor	CTF1306
L 729	(B,135,17) Inductor	CTF1306
L 730	(B,140,10) Inductor	CTF1334
L 731	(B,140,13) Inductor	CTF1334
L 732	(B,143,14) Inductor	CTF1334
L 733	(B,140,14) Inductor	CTF1306
L 734	(B,143,15) Inductor	CTF1334
L 735	(A,133,18) Inductor	CTF1393
L 736	(B,140,12) Inductor	CTF1306
L 737	(B,128,17) Inductor	CTF1334
L 738	(B,130,17) Inductor	CTF1334
L 740	(B,127,17) Inductor	CTF1306
L 741	(B,134,17) Inductor	CTF1306
L 742	(B,131,17) Inductor	CTF1306
L 743	(A,125,19) Inductor	CTF1379
L 744	(B,143,10) Inductor	CTF1306
L 801	(A,34,114) Inductor	CTH1257
L 802	(A,34,96) Inductor	CTH1257
L 803	(A,45,98) Inductor	CTH1253
L 804	(A,14,106) Inductor	CTF1306

Circuit Symbol and No.			Part No.
L 806	(A,57,102)	Inductor	CTF1306
L 807	(A,57,106)	Inductor	CTF1306
L 3501	(A,65,108)	Inductor	CTF1393
L 3502	(A,127,101)	Inductor	CTF1295
L 3503	(A,65,104)	Inductor	CTF1393
L 3504	(B,64,102)	Inductor	CTF1393
L 3505	(A,64,92)	Inductor	CTF1334
L 3506	(A,66,92)	Inductor	CTF1334
L 3701	(A,146,139)	Inductor	CTF1295
L 3703	(A,146,148)	Inductor	CTF1295
L 3704	(B,149,106)	Inductor	CTF1334
L 3705	(B,149,104)	Inductor	CTF1334
L 3706	(B,149,114)	Inductor	CTF1393
L 3707	(B,145,111)	Inductor	CTF1410
L 3708	(B,149,101)	Inductor	CTF1334
L 3709	(B,149,100)	Inductor	CTF1334
L 3710	(B,149,111)	Inductor	CTF1393
L 3712	(B,149,108)	Inductor	CTF1334
L 3713	(B,157,105)	Inductor	CTF1334
L 3714	(B,157,104)	Inductor	CTF1334
L 3716	(B,157,102)	Inductor	CTF1334
L 3717	(B,156,99)	Inductor	CTF1334
L 3719	(B,149,107)	Inductor	CTF1334
L 3720	(A,123,31)	Inductor	CTF1410
L 3721	(A,127,31)	Inductor	CTF1410
X 1	(A,84,84)	Radiator 30.000MHz	CSS1633
X 2	(B,76,74)	Radiator 33.000MHz	CSS1634
X 3	(B,101,62)	Radiator 33.8688MHz	CSS1551
X 202	(A,68,34)	Radiator 14.31818MHz	CSS1632
⚠FU601	(A,88,10)	Fuse 1.25A	CEK1255
⚠FU801	(A,60,106)	Fuse 4A	CEK1260
⚠FU802	(B,16,124)	Fuse 2.5A	CEK1258
⚠FU803	(A,17,107)	Fuse 2.5A	CEK1258
⚠FU3501	(B,37,138)	Fuse 1.6A	CEK1256
⚠FU3503	(B,114,126)	Fuse 1A	CEK1254
⚠FU3506	(A,33,129)	Fuse 1A	CEK1254
⚠FU3507	(B,149,12)	Fuse 1A	CEK1254
FB1	(B,9,55)	Inductor	CTF1453
GY3701	(A,139,136)	Sensor	CSX1054
EF1	(A,71,47)	EMI Filte	CCG1158
EF2	(B,102,70)	EMI Filte	CCG1158
EF5	(A,76,46)	EMI Filte	CCG1158
EF6	(B,13,54)	EMI Filte	CCG1158
EF7	(B,14,66)	EMI Filte	CCG1158
EF101	(B,49,65)	EMI Filte	CCG1158
EF102	(B,46,51)	EMI Filte	CCG1158
EF103	(B,46,35)	EMI Filte	CCG1158
EF201	(A,29,23)	EMI Filte	CCG1158
EF202	(A,29,57)	EMI Filte	CCG1158
EF601	(B,99,11)	EMI Filter	CCG1168
EF602	(B,91,11)	EMI Filter	CCG1168
EF603	(B,82,11)	EMI Filter	CCG1168
EF801	(A,60,100)	EMI Filter	CCG1083
EF3501	(B,104,135)	EMI Filter	CCG1172
EF3502	(A,15,48)	EMI Filter	CCG1083
EF3503	(B,100,128)	EMI Filter	CCG1172
EF3504	(B,18,52)	EMI Filter	CCG1083
EF3505	(B,8,51)	EMI Filter	CCG1083

RESISTORS

Circuit Symbol and No.		Part No.
R 1	(B,72,47)	RS1/16S0R0J
R 3	(B,72,49)	RS1/16S0R0J
R 5	(B,87,44)	RS1/16SS271J
R 6	(B,103,45)	RS1/16SS271J
R 7	(A,97,60)	RS1/16S220J
R 9	(B,28,62)	RS1/16S101J
R 10	(A,93,82)	RS1/16S104J
R 11	(A,96,82)	RAB4C473J
R 12	(A,86,79)	RS1/16S105J
R 13	(A,84,79)	RS1/16S151J
R 14	(B,88,47)	RS1/16S0R0J
R 16	(B,88,49)	RS1/16S0R0J
R 20	(A,76,82)	RS1/16S101J
R 22	(A,77,82)	RS1/16S101J
R 23	(B,78,72)	RS1/16S105J
R 24	(B,78,75)	RS1/16S151J
R 26	(A,79,82)	RS1/16S101J
R 27	(A,75,79)	RS1/16S101J
R 28	(A,78,80)	RS1/16S101J
R 29	(A,74,79)	RS1/16S101J
R 30	(A,73,79)	RS1/16S101J
R 31	(A,73,82)	RS1/16S101J
R 32	(B,78,65)	RS1/16S104J
R 33	(A,72,82)	RS1/16S473J
R 34	(B,98,62)	RS1/16S105J
R 35	(A,68,61)	RS1/16S104J
R 36	(A,67,71)	RS1/16S101J
R 37	(A,67,73)	RS1/16S101J
R 38	(A,67,74)	RS1/16S101J
R 39	(A,67,75)	RS1/16S101J
R 40	(A,67,59)	RS1/16S470J
R 45	(B,71,68)	RS1/16S104J
R 46	(B,71,74)	RS1/16S104J
R 47	(B,98,57)	RS1/16S104J
R 48	(B,100,77)	RS1/16S104J
R 49	(B,101,77)	RS1/16S104J
R 50	(B,103,77)	RS1/16S104J
R 52	(A,26,80)	RS1/16S101J
R 53	(A,26,79)	RS1/16S101J
R 54	(A,26,77)	RS1/16S101J
R 55	(A,26,76)	RS1/16S101J
R 57	(A,26,75)	RS1/16S101J
R 59	(A,26,74)	RS1/16S101J
R 60	(A,26,72)	RS1/16S101J
R 62	(A,26,71)	RS1/16S101J
R 63	(A,26,70)	RS1/16S101J
R 64	(A,26,68)	RS1/16S101J
R 65	(A,26,67)	RS1/16S101J
R 66	(A,26,66)	RS1/16S101J
R 67	(A,26,64)	RS1/16S101J
R 68	(A,26,63)	RS1/16S101J
R 69	(A,26,61)	RS1/16S101J
R 70	(A,23,60)	RS1/16S101J
R 71	(B,28,79)	RS1/16S101J
R 72	(B,28,78)	RS1/16S101J
R 73	(B,28,76)	RS1/16S101J
R 74	(B,28,75)	RS1/16S101J
R 75	(B,28,74)	RS1/16S101J

Circuit Symbol and No.			Part No.
R	76	(B,28,72)	RS1/16S101J
R	77	(B,28,71)	RS1/16S101J
R	78	(B,28,70)	RS1/16S101J
R	79	(B,28,68)	RS1/16S101J
R	80	(B,28,67)	RS1/16S101J
R	81	(B,28,66)	RS1/16S101J
R	82	(B,28,64)	RS1/16S101J
R	84	(A,26,59)	RS1/16S562J
R	85	(A,28,72)	RS1/16S103J
R	87	(B,101,75)	RS1/16S104J
R	99	(B,25,64)	RS1/16S101J
R	100	(B,25,63)	RS1/16S101J
R	101	(B,47,49)	RS1/16S473J
R	102	(B,47,33)	RS1/16S473J
R	103	(B,46,72)	RS1/16S473J
R	104	(A,76,35)	RS1/16S220J
R	151	(B,72,45)	RS1/16S0R0J
R	152	(B,104,47)	RS1/16S0R0J
R	163	(A,67,70)	RS1/16S560J
R	176	(A,67,69)	RS1/16S0R0J
R	180	(A,90,79)	RS1/16S101J
R	194	(A,91,81)	RS1/16S390J
R	201	(A,65,53)	RN1/16SE1502D
R	202	(A,65,52)	RN1/16SE1202D
R	203	(A,36,55)	RS1/16S104J
R	204	(B,63,28)	RS1/16S620J
R	205	(A,65,32)	RS1/16S0R0J
R	210	(A,44,55)	RS1/16S104J
R	211	(A,42,55)	RS1/16S104J
R	212	(A,35,55)	RS1/16S104J
R	213	(A,33,55)	RS1/16S104J
R	217	(A,66,49)	RS1/16S272J
R	220	(A,67,21)	RS1/16S223J
R	221	(A,65,34)	RS1/16S105J
R	222	(A,66,38)	RS1/16S151J
R	224	(A,24,29)	RS1/16S0R0J
R	225	(A,62,21)	RS1/16S104J
R	226	(A,63,21)	RS1/16S104J
R	227	(A,24,26)	RS1/16S104J
R	228	(A,25,29)	RS1/16S104J
R	229	(B,60,29)	RS1/16S560J
R	230	(A,25,26)	RS1/16S104J
R	232	(A,27,26)	RS1/16S104J
R	237	(B,57,29)	RS1/16S104J
R	238	(B,59,29)	RS1/16S330J
R	240	(A,59,20)	RS1/16S104J
R	301	(A,81,31)	RS1/16S123J
R	302	(A,81,34)	RS1/16S103J
R	303	(A,82,29)	RS1/16S473J
R	304	(A,130,88)	RS1/16S104J
R	305	(A,130,87)	RS1/16S104J
R	306	(A,117,84)	RS1/16S473J
R	307	(B,110,104)	RS1/16S4701F
R	309	(B,108,103)	RS1/16S4701F
R	310	(A,113,107)	RS1/16S821J
R	311	(B,110,102)	RS1/16S4701F
R	313	(A,107,107)	RS1/16S1000F
R	314	(B,107,103)	RS1/16S1501F
R	315	(A,106,109)	RS1/16S4702F
R	316	(B,108,106)	RS1/16S4701F

Circuit Symbol and No.			Part No.
R	317	(A,107,111)	RS1/16S6802F
R	318	(A,105,113)	RS1/16S6202F
R	319	(B,107,106)	RS1/16S1001F
R	320	(A,34,63)	RS1/16S103J
R	321	(B,110,105)	RS1/16S105J
R	322	(B,105,103)	RS1/16S0R0J
R	324	(A,123,95)	RS1/16S4703F
R	325	(A,125,94)	RS1/16S4702F
R	326	(A,126,92)	RS1/16S4702F
R	327	(A,127,94)	RS1/16S4702F
R	328	(A,135,90)	RS1/16S474J
R	329	(A,31,66)	RS1/16S101J
R	330	(A,31,70)	RS1/16S221J
R	331	(A,31,67)	RS1/16S221J
R	332	(A,31,68)	RS1/16S221J
R	333	(A,31,73)	RS1/16S101J
R	334	(A,31,72)	RS1/16S221J
R	335	(A,31,75)	RS1/16S221J
R	336	(A,31,76)	RS1/16S221J
R	337	(A,136,96)	RS1/16S1802F
R	338	(A,138,93)	RS1/16S2202F
R	339	(A,124,83)	RS1/16S102J
R	341	(A,31,77)	RS1/16S104J
R	342	(A,45,80)	RS1/10S0R0J
R	343	(A,42,81)	RS1/10S0R0J
R	349	(B,101,57)	RS1/16S473J
R	350	(B,92,56)	RS1/16S473J
R	601	(B,88,8)	RS1/10S101J
R	602	(A,94,10)	RS1/4S470J
R	603	(B,96,8)	RS1/10S101J
R	604	(B,104,8)	RS1/10S101J
R	605	(B,103,11)	RS1/16S100J
R	606	(B,95,11)	RS1/16S100J
R	607	(B,87,11)	RS1/16S100J
R	608	(B,82,8)	RS1/16S681J
R	609	(B,84,8)	RS1/16S301J
R	610	(B,90,8)	RS1/16S681J
R	611	(B,92,8)	RS1/16S301J
R	612	(B,98,8)	RS1/16S681J
R	613	(B,100,8)	RS1/16S301J
R	614	(A,101,6)	RS1/16S101J
R	701	(B,23,56)	RS1/16S473J
R	702	(B,24,53)	RS1/16S473J
R	703	(B,24,56)	RS1/16S473J
R	704	(B,23,53)	RS1/16S473J
R	705	(B,31,56)	RS1/16S473J
R	706	(B,30,56)	RS1/16S473J
R	707	(B,30,53)	RS1/16S473J
R	708	(B,31,53)	RS1/16S473J
R	709	(B,26,53)	RS1/16S473J
R	710	(B,26,56)	RS1/16S473J
R	714	(B,140,16)	RS1/16S0R0J
R	715	(B,143,11)	RS1/16S0R0J
R	716	(B,143,12)	RS1/16S0R0J
R	721	(A,130,28)	RS1/16S104J
R	801	(B,46,94)	RS1/16S6803D
R	802	(A,6,107)	RN1/16SE3901D
R	803	(A,4,103)	RN1/16SE6801D
R	804	(A,4,101)	RN1/16SE1002D
R	806	(B,49,114)	RS1/16S821J

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
R 807	(B,6,126)	RS1/16S330J	R 934	(A,62,77)	RS1/16S473J
R 808	(B,7,126)	RS1/16S330J	R 935	(A,100,74)	RS1/16S0R0J
R 809	(B,10,125)	RS1/16S102J	R 936	(B,90,81)	RS1/16S473J
R 810	(B,44,92)	RS1/16S100J	R 937	(A,49,81)	RS1/16S473J
R 811	(B,51,95)	RN1/16SE5601D	R 938	(B,94,81)	RS1/16S473J
R 812	(B,49,95)	RN1/16SE1002D	R 939	(B,95,81)	RS1/16S473J
R 813	(B,46,96)	RN1/16SE2200D	R 940	(B,93,83)	RS1/16S473J
R 814	(B,51,115)	RN1/16SE3001D	R 942	(A,68,77)	RS1/16S473J
R 815	(B,49,116)	RN1/16SE1002D	R 943	(A,62,81)	RS1/16S473J
R 816	(B,46,116)	RS1/16S0R0J	R 944	(B,91,83)	RS1/16S473J
R 817	(B,50,113)	RS1/16S152J	R 945	(A,62,68)	RS1/16S473J
R 818	(B,50,103)	RS1/16S104J	R 946	(B,98,81)	RS1/16S473J
R 819	(B,50,97)	RS1/16S152J	R 947	(B,99,77)	RS1/16S473J
R 820	(B,49,96)	RS1/16S821J	R 948	(A,60,64)	RS1/16S473J
R 822	(B,48,118)	RS1/16S473J	R 949	(B,84,56)	RS1/16S473J
R 823	(B,50,106)	RN1/16SE1003D	R 950	(B,88,55)	RS1/16S473J
R 824	(B,30,111)	RS1/10S150J	R 951	(A,53,75)	RS1/16S473J
R 825	(B,46,113)	RS1/16S224J	R 952	(B,82,56)	RS1/16S473J
R 826	(B,46,98)	RS1/16S224J	R 953	(A,54,79)	RS1/16S473J
R 827	(B,30,91)	RS1/10S150J	R 954	(A,53,79)	RS1/16S473J
R 828	(B,50,110)	RS1/16S2202D	R 955	(A,56,79)	RS1/16S473J
R 829	(B,50,100)	RS1/16S2202D	R 956	(A,63,64)	RS1/16S473J
R 833	(B,5,126)	RS1/16S330J	R 957	(B,77,67)	RS1/16S473J
R 834	(B,5,120)	RS1/16S102J	R 958	(B,76,67)	RS1/16S473J
R 835	(B,5,118)	RS1/16S392J	R 963	(A,103,74)	RS1/16S0R0J
R 836	(B,44,115)	RS1/16S0R0J	R 964	(A,105,74)	RS1/16S0R0J
R 837	(B,44,95)	RS1/16S0R0J	R 965	(A,105,73)	RS1/16S0R0J
R 901	(B,75,56)	RS1/16S153J	R 966	(A,105,72)	RS1/16S0R0J
R 902	(B,79,56)	RS1/16S153J	R 967	(B,106,80)	RS1/16S473J
R 903	(B,75,62)	RS1/16S153J	R 3501	(B,29,138)	RS1/16S121J
R 904	(B,75,60)	RS1/16S153J	R 3502	(B,30,138)	RS1/16S471J
R 905	(A,68,78)	RS1/16S473J	R 3503	(B,33,141)	RS1/8S221J
R 906	(A,52,81)	RS1/16S473J	R 3504	(B,29,129)	RS1/4S181J
R 907	(A,67,79)	RS1/16S473J	R 3505	(B,39,143)	RS1/16S223J
R 908	(A,67,81)	RS1/16S473J	R 3506	(B,27,134)	RS1/16S562J
R 909	(A,56,75)	RS1/16S473J	R 3507	(B,84,121)	RS1/16S473J
R 910	(A,62,79)	RS1/16S473J	R 3509	(B,87,123)	RS1/16S104J
R 911	(A,50,81)	RS1/16S103J	R 3510	(B,44,129)	RS1/16S103J
R 912	(B,100,80)	RS1/16S560J	R 3511	(B,80,120)	RS1/16S103J
R 913	(B,101,80)	RS1/16S560J	R 3512	(B,79,123)	RS1/16S103J
R 914	(A,103,72)	RS1/16S0R0J	R 3513	(B,44,127)	RS1/16S512J
R 915	(A,60,82)	RS1/16S104J	R 3516	(A,101,125)	RS1/16S562J
R 916	(B,73,61)	RS1/16S104J	R 3517	(B,109,121)	RS1/16S223J
R 917	(B,87,56)	RS1/16S471J	R 3519	(A,108,125)	RS1/8S221J
R 918	(A,59,75)	RS1/16S473J	R 3520	(A,111,125)	RS1/8S221J
R 919	(A,59,72)	RS1/16S473J	R 3523	(A,113,126)	RS1/16S471J
R 920	(A,57,75)	RS1/16S473J	R 3524	(A,115,125)	RS1/16S121J
R 921	(A,58,72)	RS1/16S473J	R 3525	(B,48,132)	RS1/4S391J
R 922	(A,57,72)	RS1/16S473J	R 3526	(A,151,48)	RS1/10S152J
R 923	(A,56,81)	RS1/16S473J	R 3528	(A,151,15)	RS1/16S223J
R 924	(B,82,78)	RS1/16S473J	R 3530	(B,146,9)	RS1/16S105J
R 925	(A,53,81)	RS1/16S473J	R 3531	(B,144,5)	RS1/10S391J
R 926	(A,54,81)	RS1/16S473J	R 3532	(A,149,9)	RS1/16S1501F
R 927	(B,80,78)	RS1/16S473J	R 3533	(A,147,9)	RS1/16S2201F
R 928	(A,58,75)	RS1/16S473J	R 3534	(A,156,47)	RS1/16S473J
R 929	(A,63,73)	RS1/16S473J	R 3535	(A,153,48)	RS1/16S153J
R 930	(A,62,78)	RS1/16S473J	R 3701	(A,135,127)	RS1/16S104J
R 931	(A,67,82)	RS1/16S473J	R 3702	(A,137,127)	RS1/16S151J
R 932	(A,55,72)	RS1/16S473J	R 3703	(A,146,141)	RS1/16S0R0J
R 933	(A,62,75)	RS1/16S473J	R 3704	(B,157,107)	RS1/16S104J

Circuit Symbol and No.		Part No.
R 3705	(B,149,110)	RS1/16S0R0J
R 3706	(B,150,114)	RS1/16S0R0J
R 3707	(B,153,108)	RS1/16S0R0J
R 3708	(B,142,113)	RS1/16S152J
R 3710	(B,153,107)	RS1/16S0R0J
R 3711	(B,123,113)	RS1/16S0R0J
R 3725	(A,146,138)	RS1/16S0R0J

CAPACITORS

C 1	(B,73,32)	CKSRYB104K16
C 2	(B,72,35)	CKSRYB104K16
C 3	(B,72,37)	CKSRYB104K16
C 4	(B,72,43)	CKSRYB104K16
C 5	(B,72,54)	CKSRYB104K16
C 6	(A,93,49)	CKSRYB104K16
C 7	(A,97,58)	CKSRYB104K16
C 8	(A,97,62)	CKSRYB104K16
C 9	(A,97,66)	CKSRYB104K16
C 10	(A,97,68)	CKSRYB104K16
C 11	(A,97,73)	CKSRYB104K16
C 12	(B,76,30)	CSZFS100M10
C 13	(B,87,38)	CKSRYB104K16
C 14	(B,87,42)	CKSRYB104K16
C 15	(A,88,49)	CKSRYB104K16
C 16	(A,86,49)	CKSRYB104K16
C 17	(A,87,79)	CKSRYB104K16
C 18	(A,87,80)	CCSRCH100D50
C 19	(A,83,81)	CCSRCH100D50
C 20	(B,90,31)	CKSRYB104K16
C 21	(B,89,35)	CKSRYB104K16
C 22	(B,89,37)	CKSRYB104K16
C 23	(B,89,42)	CKSRYB104K16
C 24	(B,88,53)	CKSRYB104K16
C 25	(A,82,49)	CKSRYB104K16
C 26	(A,82,79)	CKSRYB104K16
C 27	(B,93,30)	CSZFS100M10
C 28	(B,98,28)	CKSRYB104K16
C 29	(B,103,40)	CKSRYB104K16
C 30	(A,99,31)	CKSRYB104K16
C 31	(B,73,72)	CCSRCH9R0D50
C 32	(B,73,75)	CCSRCH9R0D50
C 33	(A,77,49)	CKSRYB104K16
C 34	(B,87,25)	CKSRYB104K16
C 35	(A,79,78)	CKSRYB104K16
C 36	(A,71,78)	CKSRYB104K16
C 37	(B,15,57) 10μF	CCG1173
C 38	(A,84,47)	CSZFS100M10
C 39	(A,68,54)	CKSRYB104K16
C 40	(A,67,56)	CKSRYB104K16
C 41	(A,68,63)	CKSRYB104K16
C 42	(B,82,57)	CKSRYB104K16
C 43	(B,85,25)	CKSRYB104K16
C 44	(B,78,69)	CKSRYB104K16
C 45	(B,71,25)	CKSRYB104K16
C 46	(B,60,23)	CKSRYB104K16
C 47	(B,86,78)	CKSRYB104K16
C 48	(B,59,22)	CKSRYB104K16
C 49	(B,84,57)	CKSRYB104K16
C 51	(A,89,49)	CKSRYB224K10

Circuit Symbol and No.		Part No.
C 54	(A,25,59)	CCSRCH121J50
C 55	(B,89,57)	CKSRYB104K16
C 56	(B,37,21)	CKSRYB104K16
C 57	(B,92,57)	CKSRYB104K16
C 60	(B,94,78)	CKSRYB104K16
C 63	(B,98,59)	CKSRYB104K16
C 64	(B,98,65)	CKSRYB104K16
C 66	(B,98,68)	CKSRYB104K16
C 67	(B,100,69)	CSZFS100M10
C 69	(A,69,49) 22μF	CCG1178
C 70	(A,73,49) 22μF	CCG1178
C 71	(B,70,74)	CKSRYB104K16
C 72	(B,106,65)	CKSRYB104K16
C 73	(B,106,64)	CKSRYB104K16
C 74	(B,99,74)	CKSRYB104K16
C 75	(A,97,30)	CKSRYB104K16
C 76	(B,72,40)	CKSRYB103K50
C 77	(B,80,31)	CKSRYB103K50
C 78	(B,87,34)	CKSRYB103K50
C 79	(B,103,43)	CKSRYB103K50
C 80	(B,96,30)	CKSRYB103K50
C 81	(B,88,52)	CKSRYB224K10
C 82	(B,103,36)	CKSRYB103K50
C 83	(B,13,61)	CKSRYB104K16
C 84	(B,13,60)	CKSRYB104K16
C 91	(A,97,28)	CKSRYB102K50
C 92	(A,82,45)	CKSRYB102K50
C 96	(B,105,36)	CKSRYB224K10
C 97	(B,105,40)	CKSRYB224K10
C 98	(B,105,43)	CKSRYB224K10
C 101	(A,73,32)	CKSRYB104K16
C 102	(A,76,25)	CKSRYB104K16
C 103	(A,80,38)	CKSRYB104K16
C 104	(A,89,42)	CKSRYB104K16
C 105	(A,97,42)	CKSRYB104K16
C 106	(A,105,42)	CKSRYB104K16
C 107	(A,101,46)	CKSRYB104K16
C 108	(A,101,54)	CKSRYB104K16
C 109	(A,101,63)	CKSRYB104K16
C 110	(B,47,55)	CSZFS100M10
C 111	(B,47,53)	CKSRYB104K16
C 112	(B,47,47)	CKSRYF224Z16
C 113	(B,47,40)	CSZFS100M10
C 114	(B,47,37)	CKSRYB104K16
C 115	(B,47,32)	CKSRYF224Z16
C 116	(B,60,77)	CKSRYB104K16
C 117	(B,49,63)	CSZFS100M10
C 118	(B,49,61)	CKSRYB104K16
C 119	(B,60,63)	CKSRYB104K16
C 120	(B,50,75)	CKSRYB104K16
C 121	(B,50,70)	CKSRYB104K16
C 122	(B,44,51)	CKSRYB104K16
C 123	(B,47,67)	CKSRYB104K16
C 124	(B,71,53)	CCSRCH101J50
C 125	(A,107,46)	CKSRYB104K16
C 126	(A,107,63)	CKSRYB104K16
C 201	(A,65,51)	CKSRYB104K16
C 202	(A,60,55)	CKSRYB104K16
C 203	(A,58,55)	CKSRYB104K16
C 204	(A,63,50)	CKSRYB104K16

Circuit Symbol and No.	Part No.	Circuit Symbol and No.	Part No.
C 205 (A,52,55)	CKSRYB104K16	C 311 (A,107,106)	CKSRYB105K10
C 206 (A,47,54)	CKSRYB104K16	C 312 (A,118,104)	CEHVW100M16
C 207 (A,41,55)	CKSRYB104K16	C 313 (A,131,96)	CCSRCH331J50
C 208 (A,37,55)	CKSRYB104K16	C 314 (A,107,109)	CCSRCH181J50
C 209 (A,29,51)	CKSRYB104K16	C 315 (A,129,94)	CCSRCH820J50
C 211 (A,63,47)	CKSRYB104K16	C 317 (A,108,113)	CCSRCH471J50
C 213 (A,63,45)	CKSRYB104K16	C 318 (A,139,93)	CCSRCH820J50
C 214 (A,64,45)	CKSRYB104K16	C 319 (A,132,90)	CKSRYB103K50
C 215 (A,29,48)	CKSRYB104K16	C 320 (A,127,89)	CKSRYB104K16
C 216 (A,27,43)	CKSRYB104K16	C 321 (A,138,90)	CKSRYB104K16
C 217 (A,29,44)	CKSRYB104K16	C 323 (A,38,63)	CSZFS100M10
C 220 (A,66,46)	CSZFS100M10	C 324 (A,41,76)	CKSRYB104K16
C 221 (A,63,42)	CKSRYB104K16	C 327 (A,43,77) 10µF	CCG1182
C 222 (A,63,40)	CKSRYB104K16	C 328 (A,41,68)	CKSRYB104K16
C 223 (A,65,21)	CKSRYB224K10	C 329 (A,42,64) 10µF	CCG1182
C 224 (A,63,37)	CKSRYB104K16	C 330 (A,39,79)	CSZFS4R7M10
C 225 (A,65,42)	CKSRYB104K16	C 331 (A,38,77)	CKSRYB104K16
C 227 (A,29,41)	CKSRYB104K16	C 332 (A,41,73)	CKSRYB104K16
C 228 (A,29,38)	CKSRYB104K16	C 339 (A,43,72) 10µF	CCG1182
C 230 (A,68,30)	CCSRCH150J50	C 341 (A,104,34)	CCSRCH101J50
C 231 (A,68,38)	CCSRCH150J50	C 342 (A,81,27)	CKSRYB104K16
C 232 (A,63,35)	CKSRYB104K16	C 350 (A,39,82)	CKSRYB104K16
C 233 (A,63,31)	CKSRYB104K16	C 351 (A,83,24)	CKSRYB102K50
C 234 (A,29,35)	CKSRYB104K16	C 352 (A,87,24)	CKSRYB102K50
C 235 (A,29,33)	CKSRYB104K16	C 602 (B,108,12)	CKSRYB104K16
C 237 (A,64,29)	CKSRYB104K16	C 603 (B,110,8) 68µF/6.3V	CCH1635
C 238 (A,64,26)	CKSRYB104K16	C 604 (A,104,9)	CKSRYB104K16
C 239 (A,28,30)	CKSRYB104K16	C 608 (A,40,9) 100µF/16V	CCH1477
C 240 (A,29,28)	CKSRYB104K16	C 609 (A,47,9) 100µF/16V	CCH1477
C 241 (A,29,26)	CKSRYB104K16	C 624 (A,16,9) 100µF/16V	CCH1477
C 242 (A,57,21)	CKSRYB104K16	C 625 (A,24,9) 100µF/16V	CCH1477
C 243 (A,53,21)	CKSRYB104K16	C 701 (A,125,34)	CKSRYB104K16
C 244 (A,50,21)	CKSRYB104K16	C 702 (A,61,61)	CKSRYB104K16
C 245 (A,47,21)	CKSRYB104K16	C 703 (A,136,33)	CKSRYB104K16
C 246 (A,43,21)	CKSRYB104K16	C 708 (A,130,19)	CKSRYB102K50
C 247 (A,39,21)	CKSRYB104K16	C 710 (B,66,15)	CKSRYB104K16
C 248 (A,34,21)	CKSRYB104K16	C 712 (A,129,17)	CKSRYB102K50
C 249 (A,30,21)	CSZFS100M10	C 716 (A,132,17)	CKSRYB102K50
C 250 (A,49,56)	CSZFS100M10	C 718 (A,135,17)	CKSRYB102K50
C 251 (A,65,38)	CSZFS100M10	C 728 (A,138,17)	CKSRYB102K50
C 252 (A,30,55)	CSZFS100M10	C 729 (B,117,18)	CKSRYB102K50
C 253 (A,67,27)	CKSRYB104K16	C 730 (A,139,17)	CKSRYB102K50
C 255 (A,27,40)	CKSRYB103K50	C 734 (A,127,19)	CKSRYB102K50
C 256 (A,27,39)	CKSRYB103K50	C 801 (A,7,112) 100µF/6.3V	CCH1665
C 257 (A,27,36)	CKSRYB103K50	C 802 (A,6,106)	CCSRCH680J50
C 258 (A,27,35)	CKSRYB103K50	C 803 (A,13,111)	CEHVW100M16
C 259 (A,27,46)	CKSRYB103K50	C 804 (A,9,106)	CKSRYB104K16
C 260 (A,27,51)	CKSRYB103K50	C 805 (A,10,119) 100µF/6.3V	CCH1665
C 261 (A,26,21)	CKSRYB103K50	C 806 (A,10,115)	CKSRYB104K16
C 262 (A,24,21)	CKSRYB103K50	C 807 (A,22,99)	CKSRYB104K16
C 263 (A,70,41)	CKSRYB102K50	C 808 (B,50,104)	CKSRYB105K10
C 301 (A,82,34)	CKSRYB104K16	C 809 (B,48,112)	CKSRYB102K50
C 302 (A,89,34)	CKSRYB334K10	C 810 (B,47,92) 4.7µF	CCG1111
C 303 (A,83,26)	CKSRYB104K16	C 811 (B,50,107) 56pF	CCG1215
C 304 (A,35,83)	CKSRYB104K16	C 812 (B,34,105) 10µF	CCG1182
C 305 (A,104,109)	CKSRYB474K10	C 813 (B,42,110)	CKSRYF474Z16
C 306 (B,105,106)	CKSRYB105K10	C 814 (B,42,100)	CKSRYF474Z16
C 307 (A,121,87)	CKSRYB104K16	C 815 (B,39,112) 10µF	CCG1195
C 308 (A,112,112)	CKSRYB104K16	C 816 (B,40,96) 10µF	CCG1195
C 310 (A,123,93)	CCSRCH101J50	C 817 (B,48,98)	CKSRYB102K50

Circuit Symbol and No.		Part No.
C 818	(A,22,112)	CKSRYB104K16
C 819	(A,25,110) 330µF/10V	CCH1623
C 820	(A,25,101) 330µF/10V	CCH1623
C 821	(B,46,114)	CKSRYB822K50
C 822	(B,50,111)	CKSRYB563K16
C 823	(B,50,109)	CKSRYB103K50
C 824	(B,46,97)	CKSRYB822K50
C 825	(B,50,102)	CKSRYB103K50
C 826	(B,50,99)	CKSRYB563K16
C 827	(A,49,109) 10µF	CCG1195
C 828	(A,43,106) 10µF	CCG1195
C 829	(B,46,111)	CKSRYB104K16
C 830	(B,46,100)	CKSRYB104K16
C 831	(A,49,107) 10µF	CCG1195
C 832	(A,43,108) 10µF	CCG1195
C 833	(B,36,112) 10µF	CCG1195
C 835	(B,38,96) 10µF	CCG1195
C 3501	(A,68,109)	CKSRYB104K16
C 3502	(A,36,140)	CKSRYB104K16
C 3503	(A,30,137)	CEHVW331M16
C 3504	(A,68,107)	CKSRYB103K50
C 3505	(B,27,132)	CKSRYB103K50
C 3506	(A,152,55) 100µF/6.3V	CCH1665
C 3507	(A,153,59)	CKSRYB104K16
C 3508	(A,152,64)	CKSRYB104K16
C 3510	(A,43,135)	CEHVW471M16
C 3514	(A,134,109) 100µF/6.3V	CCH1665
C 3515	(A,102,125)	CKSRYB103K50
C 3516	(A,135,112)	CKSRYB104K16
C 3517	(B,118,145)	CKSRYB104K16
C 3518	(A,140,102)	CKSRYB334K10
C 3519	(A,110,118) 100µF/16V	CCH1477
C 3520	(A,118,141) 1000µF/16V	CCH1664(P30)
C 3521	(A,136,102)	CEHVW1R0M50
C 3522	(A,114,121)	CKSRYB104K16
C 3525	(B,47,138)	CKSRYB103K50
C 3527	(A,38,128)	CKSRYB103K50
C 3528	(A,54,134) 100µF/16V	CCH1477
C 3529	(B,146,10)	CKSRYB472K50
C 3530	(A,147,20)	CKSRYB104K16
C 3532	(A,150,42)	CKSRYB104K16
C 3533	(A,154,33)	CKSRYB104K16
C 3534	(A,154,36) 100µF/6.3V	CCH1665
C 3535	(A,68,103)	CKSRYB104K16
C 3536	(A,68,105)	CKSRYB103K50
C 3537	(B,67,105)	CKSRYB104K16
C 3538	(B,65,105)	CKSRYB103K50
C 3701	(A,135,128)	CKSRYB103K50
C 3702	(A,140,127)	CKSYB106K6R3
C 3703	(A,146,136)	CKSRYB105K10
C 3706	(A,146,146)	CKSRYB104K16
C 3707	(B,153,111)	CKSRYB104K16
C 3708	(B,154,111)	CKSRYB104K16
C 3709	(B,155,111)	CKSRYB104K16
C 3712	(B,140,112)	CKSRYB474K10
C 3713	(B,145,113)	CKSRYB104K16
C 3716	(A,123,30)	CKSRYB104K16
C 3717	(A,127,30)	CKSRYB104K16

B

Unit Number:CWX3019
Unit Name:GPS Unit

MISCELLANEOUS

Circuit Symbol and No.		Part No.
IC 401	(A,27,11) IC	UPB1025K
IC 402	(B,27,19) IC	TC7SU04FU
IC 403	(B,30,15) IC	TC7WH74FU
IC 451	(B,27,23) IC	NJM2100V
IC 452	(A,30,22) IC	S-812C51AMC-C3F
IC 471	(B,43,11) IC	ADC78H89CIMT
IC 501	(A,36,14) IC	S-1112B15MC-L6A
IC 502	(A,47,17) IC	PD3441A
IC 503	(B,51,22) IC	S-80929CNNB-G8Z
IC 504	(B,56,19) IC	PD6488C
IC 505	(A,59,7) IC	S-1112B15MC-L6A
IC 506	(B,49,6) IC	TC7S14FU
Q 451	(A,20,22) Transistor	2SB1132
D 401	(A,17,14) Diode	HZU5R6(B3)
D 402	(A,18,17) Diode	HZU5R6(B3)
D 403	(B,22,9) Diode	1SV314
D 501	(B,44,19) Diode	RB751V40
L 401	(B,21,16) Inductor	LCYC1R0K2125
L 402	(A,24,4) Inductor	LCYB3N3S1005
L 403	(A,24,6) Inductor	LCYB4N7S1005
L 404	(B,22,7) Inductor	LCYB3N9S1005
L 405	(A,22,10) Inductor	LCYB4N7S1005
L 406	(A,21,12) Inductor	LCYB6N8J1005
L 407	(A,33,6) Inductor	CTF1410
L 409	(A,20,17) Inductor	LCYB22NJ1608
L 410	(A,23,17) Inductor	LCYB22NJ1608
L 412	(A,26,19) Inductor	CTF1486
L 413	(A,29,19) Inductor	CTF1486
L 414	(B,34,10) Inductor	CTF1410
L 451	(B,20,19) Inductor	CTF1410
L 452	(A,36,22) Inductor	CTF1410
L 472	(B,37,13) Inductor	CTF1410
L 473	(B,44,5) Inductor	CTF1410
L 501	(A,35,9) Inductor	CTF1410
L 502	(A,39,14) Inductor	CTF1410
L 503	(B,55,24) Inductor	CTF1410
X 401	(B,33,18) TCXO 32.736MHz	CWX3181
X 501	(A,58,17) Radiator 32.768kHz	CSS1319
F 401	(A,22,6) Filter	CTF1548

RESISTORS

Circuit Symbol and No.		Part No.
R 402	(B,22,11)	RS1/16SS472J
R 403	(B,26,6)	RS1/16SS472J
R 404	(B,26,5)	RS1/16SS751J
R 405	(A,26,5)	RS1/16S100J
R 406	(B,31,3)	RS1/16S100J
R 407	(B,23,15)	RS1/16SS103J
R 408	(B,22,13)	RS1/16SS103J
R 409	(A,32,14)	RS1/16S392J
R 410	(B,33,14)	RS1/16SS392J
R 411	(B,30,17)	RS1/16SS0R0J
R 412	(B,29,18)	RS1/16SS104J
R 413	(B,30,18)	RS1/16SS561J
R 451	(A,17,22)	RN1/16SC22R0D
R 452	(B,21,24)	RN1/16SE1801D

Circuit Symbol and No.		Part No.
R 453	(B,21,22)	RN1/16SE1502D
R 454	(B,21,21)	RN1/16SE6802D
R 455	(A,24,24)	RN1/16SE2202D
R 456	(A,24,22)	RN1/16SE6802D
R 457	(B,24,20)	RN1/16SE2701D
R 458	(A,27,24)	RN1/16SC18R0D
R 459	(A,27,22)	RN1/16SE6801D
R 460	(A,24,21)	RN1/16SE2202D
R 461	(B,30,21)	RS1/16SS103J
R 462	(B,37,16)	RS1/16SS223J
R 463	(A,33,18)	RS1/16SS223J
R 464	(B,37,17)	RS1/16SS333J
R 465	(A,34,20)	RS1/16SS333J
R 466	(A,14,22)	RN1/16SC22R0D
R 467	(A,15,22)	RN1/16SC22R0D
R 471	(B,47,17)	RS1/16SS102J
R 472	(B,37,19)	RS1/16SS102J
R 474	(B,47,3)	RS1/16SS102J
R 476	(B,53,7)	RAB4CQ102J
R 478	(B,53,9)	RAB4CQ333J
R 479	(B,49,9)	RAB4CQ104J
R 480	(B,49,11)	RAB4CQ471J
R 481	(B,41,6)	RS1/16SS102J
R 482	(B,40,15)	RS1/16SS102J
R 502	(A,38,24)	RS1/16S0R0J
R 503	(B,40,18)	RS1/16S0R0J
R 504	(B,43,18)	RS1/16S0R0J
R 505	(B,47,4)	RS1/16SS473J
R 506	(B,41,22)	RS1/16S0R0J
R 507	(B,40,22)	RS1/16S0R0J
R 508	(B,42,24)	RS1/16S0R0J
R 509	(B,40,19)	RS1/16S0R0J
R 510	(B,44,24)	RS1/16S0R0J
R 511	(B,44,22)	RS1/16S0R0J
R 512	(B,46,22)	RS1/16S0R0J
R 515	(B,47,19)	RS1/16S0R0J
R 517	(B,50,18)	RS1/16SS473J
R 518	(B,48,20)	RS1/16SS103J
R 521	(B,48,17)	RS1/16SS102J
R 524	(B,51,6)	RS1/16SS473J
R 525	(B,51,4)	RS1/16SS223J
R 526	(B,45,17)	RS1/16SS473J
R 527	(B,38,19)	RS1/16SS473J
R 528	(B,59,10)	RS1/16S103J
R 529	(B,53,12)	RS1/16SS0R0J
R 530	(B,53,13)	RS1/16SS0R0J
R 531	(B,53,11)	RS1/16SS0R0J
R 532	(A,39,11)	RS1/16SS103J
R 547	(A,40,9)	RS1/16SS102J
R 548	(A,42,9)	RS1/16SS102J

CAPACITORS

C 401	(B,20,13)	CCSRCH101J50
C 402	(B,22,18)	CKSSYB102K50
C 403	(B,22,17)	CKSSYB103K16
C 404	(A,22,8) 0.75pF	CCG1208
C 405	(B,27,6)	CKSSYB153K16
C 407	(B,24,10) 100pF	CCG1210
C 408	(B,24,7) 100pF	CCG1210

Circuit Symbol and No.		Part No.
C 409	(B,30,6)	CKSSYB153K16
C 411	(A,20,10) 100pF	CCG1210
C 412	(B,27,8)	CKSSYB104K10
C 413	(A,28,5)	CKSSYB102K50
C 414	(B,26,11)	CKSSYB103K16
C 415	(A,28,4) 10μF	CCG1171
C 416	(B,24,13)	CCSSCH470J50
C 417	(A,22,13) 3pF	CCG1209
C 418	(B,24,12)	CKSSYB103K16
C 419	(A,30,7)	CKSSYB104K10
C 420	(B,30,8)	CKSRYB105K10
C 421	(B,28,10)	CKSSYB104K10
C 422	(A,23,14)	CKSSYB103K16
C 423	(B,28,11)	CKSSYB104K10
C 424	(A,33,4)	CKSRYB104K16
C 425	(B,24,16)	CKSSYB103K16
C 426	(B,32,7)	CKSRYB105K10
C 427	(A,22,17)	CCSRCH301J50
C 428	(B,30,10)	CKSRYB105K10
C 429	(B,30,20)	CCSSCH101J50
C 430	(A,23,15)	CCSSCH120J50
C 431	(A,25,17)	CCSRCH301J50
C 432	(B,26,14)	CKSSYB103K16
C 433	(B,30,12)	CKSSYB103K16
C 434	(B,31,11)	CKSSYB104K10
C 435	(B,27,12)	CKSSYB103K16
C 436	(A,25,15)	CKSSYB103K16
C 437	(A,26,16)	CKSSYB104K10
C 438	(A,27,19)	CCSRCH102J50
C 439	(A,33,16)	CKSRYB104K16
C 440	(A,28,16)	CCSSCH271J25
C 441	(B,36,20)	CKSSYB104K10
C 442	(A,30,19)	CCSRCH102J50
C 443	(A,30,16)	CKSSYB104K10
C 444	(A,19,12) 3pF	CCG1209
C 445	(A,24,8) 3pF	CCG1209
C 446	(A,39,18)	CCSSCH101J50
C 447	(B,25,18)	CKSSYB104K10
C 448	(B,26,16)	CKSSYB104K10
C 449	(B,33,12)	CCSSCH5R0C50
C 451	(B,18,18)	CKSSYB104K10
C 452	(A,12,23)	CKSSYB104K10
C 453	(B,22,20)	CKSSYB103K16
C 454	(B,24,21)	CCSSCH101J50
C 455	(A,27,21)	CKSSYB104K10
C 456	(A,34,21)	CKSSYB104K10
C 457	(A,35,23)	CKSSYB104K10
C 471	(A,38,6) 33μF/10V	CCH1586
C 473	(B,47,9)	CKSSYB103K16
C 475	(B,47,13)	CKSSYB103K16
C 476	(B,49,13)	CKSSYB103K16
C 477	(B,51,13)	CKSSYB103K16
C 478	(B,39,12)	CKSQYB225K10
C 479	(B,44,6)	CKSRYB104K16
C 502	(A,36,17)	CKSRYB474K10
C 503	(A,44,24)	CKSSYB104K10
C 504	(A,39,17)	CKSSYB104K10
C 505	(A,44,9)	CKSSYB104K10
C 506	(A,39,12)	CKSSYB104K10
C 507	(A,42,24)	CKSSYB104K10

Circuit Symbol and No.		Part No.
C 508	(A,39,20)	CKSSYB104K10
C 509	(A,39,16)	CKSSYB104K10
C 510	(A,46,9)	CKSSYB104K10
C 511	(A,48,9)	CKSSYB104K10
C 512	(A,46,24)	CKSSYB104K10
C 513	(A,49,24)	CKSSYB104K10
C 514	(A,50,9)	CKSSYB104K10
C 515	(A,54,21)	CKSSYB104K10
C 516	(A,54,19)	CKSSYB104K10
C 517	(A,54,17)	CKSSYB104K10
C 518	(A,54,15)	CKSSYB104K10
C 519	(A,58,10)	CCSRCH100D50
C 520	(A,56,10)	CCSRCH100D50
C 522	(A,60,10)	CKSRYB474K10
C 523	(A,56,6)	CKSRYF105Z10
C 524	(B,57,24)	CKSSYB104K10
C 525	(A,36,11)	CKSRYF105Z10
C 526	(A,54,11)	CKSSYB104K10
C 527	(B,49,4)	CCSSCH101J50
C 528	(B,51,8)	CKSSYB104K10
C 529	(B,48,23)	CKSSYB104K10
C 530	(A,54,13)	CKSSYB104K10
C 531	(B,51,24)	CKSRYB122K50

Audio Compound Unit
Consists of
Connector PCB
Audio PCB

CD

Unit Number:

CWM9495(XD1057ZF,XD1557ZF)
Unit Number:CWN1346(XD1957ZF)
Unit Name:Audio Compound Unit

MISCELLANEOUS

IC 1001	(A,114,52) IC	PQ070XH01Z
IC 1002	(A,101,66) IC	PQ070XH01Z
IC 1601	(A,99,36) IC	S-93C66BD0I-J8
IC 1602	(A,111,20) IC	TC7S86FU
IC 1603	(A,63,11) IC	S-80837CNUA-B8W
IC 1604	(A,80,28) IC(XD1057ZF,XD1557ZF)	PEG016A
IC 1604	(A,80,28) IC(XD1957ZF)	PEG154A
IC 1701	(B,105,98) IC	TC74VHC08FTS1
IC 1702	(A,96,52) IC	TC74VHCT125AFTS1
IC 1703	(A,110,100) IC	TC74VHC08FTS1
IC 1704	(A,90,91) IC	AK4591VQ
IC 1705	(A,116,112) IC	TC74VHC08FTS1
IC 1706	(B,83,112) IC	NJM2100V
IC 1707	(A,90,107) IC	AK7730AVT
IC 1801	(A,49,72) IC	NJM2068V
IC 1802	(A,66,76) IC	NJM2068V
IC 1901	(A,63,91) IC	NJM2068V
IC 1902	(A,67,109) IC	NJM2068V
IC 2061	(B,101,71) IC	NJM2058V
IC 2201	(A,51,90) IC	NJM2903V
IC 2251	(B,21,46) IC	S-812C50AMC-C3E

Circuit Symbol and No.		Part No.
IC 2252	(B,12,45) IC	TA75S393F
IC 2253	(B,9,14) IC	GP2S700HC
IC 2254	(B,73,75) IC	BA6288FS
IC 2301	(A,124,92) IC	TJA1041T
IC 2321	(A,104,79) IC	NJM2068V
IC 2322	(A,104,85) IC	NJM2068V
IC 2323	(A,104,69) IC	NJM2115V
IC 2421	(A,15,77) IC	TDA7563
IC 2430	(B,53,70) IC	NJM2068V
Q 1001	(A,13,74) Transistor	2SB1185
Q 1002	(A,25,70) Transistor	UMD3N
Q 1003	(A,20,70) Transistor	IMX1
Q 1004	(A,13,52) Transistor	2SB1185
Q 1005	(A,18,54) Transistor	IMX1
Q 1006	(A,41,45) Transistor	DTA124EU
Q 1007	(A,45,46) Transistor	2SC4081
Q 1008	(A,49,44) Transistor	DTC114TU
Q 1009	(A,36,49) Transistor	2SC2712
Q 1010	(A,13,63) Transistor	2SB1185
Q 1011	(A,21,65) Transistor	IMX1
Q 1014	(A,44,39) Transistor	2SA1577
Q 1015	(A,44,36) Transistor	DTC114EU
Q 1016	(A,13,41) Transistor	2SD2375
Q 1017	(A,29,45) Transistor	UMD3N
Q 1101	(B,52,56) Transistor	2SC4081
Q 1102	(B,51,53) Transistor	2SC4081
Q 1201	(B,114,88) Transistor	FMG12
Q 1202	(B,118,90) Transistor	DTA123EU
Q 1401	(A,117,41) Transistor	IMH1A
Q 1402	(A,122,35) Transistor	2SA1576
Q 1403	(A,122,31) Transistor	2SA1576
Q 1404	(A,126,42) Transistor	IMH1A
Q 1405	(A,128,28) Transistor	FMG12
Q 1406	(A,125,21) Transistor	DTA123EU
Q 1601	(A,96,26) Transistor	UMD3N
Q 1602	(A,59,37) Transistor	DTC323TU
Q 1603	(A,55,34) Transistor	DTC114EU
Q 1604	(A,53,37) Transistor	2SA1577
Q 1605	(A,59,27) Transistor	DTC323TU
Q 1606	(A,56,23) Transistor	DTC114EU
Q 1607	(A,55,27) Transistor	2SA1577
Q 1806	(B,56,14) Transistor	DTC114EU
Q 1901	(B,54,98) Transistor	FMG12
Q 1902	(B,54,111) Transistor	FMG12
Q 1903	(B,55,102) Transistor	DTA124EU
Q 1904	(B,50,115) Transistor	DTA124EU
Q 1905	(B,63,102) Transistor	UMD3N
Q 1906	(B,43,114) Transistor	UMD3N
Q 1907	(B,66,98) Transistor	DTA123EU
Q 1908	(B,47,110) Transistor	DTA123EU
Q 2121	(B,60,96) Transistor	2SC4081
Q 2141	(A,76,94) Transistor	2SC4116
Q 2142	(A,72,100) Transistor	2SB1184F5
Q 2143	(A,79,91) Transistor	DTC114EU
Q 2161	(B,46,90) Transistor	2SC4116
Q 2181	(A,21,56) Transistor	2SC4081
Q 2191	(B,30,119) Transistor	2SC4081
Q 2301	(A,132,96) Transistor	2SC4081
Q 2361	(B,151,87) Transistor	2SC4081
Q 2371	(B,150,96) Transistor	2SA1162

Circuit Symbol and No.			Part No.
Q 2372	(B,143,93)	Transistor	DTC124EU
Q 2381	(A,152,91)	Transistor	2SC4081
Q 2391	(A,142,93)	Transistor	DTC124EU
Q 2392	(A,147,97)	Transistor	2SA1162
Q 2403	(A,17,55)	Transistor	DTC124EU
Q 2405	(A,11,56)	Transistor	DTC124EU
D 1001	(A,24,76)	Diode	UDZS7R5(B)
D 1002	(A,19,48)	Diode	UDZS6R2(B)
D 1003	(A,56,44)	Diode	1SS355
D 1004	(A,33,55)	Diode	HZU4R7(B3)
D 1005	(B,27,61)	Diode	HZU7R5(B3)
D 1006	(A,34,46)	Diode	UDZS5R6(B)
D 1007	(B,36,45)	Diode	DAN202U
D 1008	(A,21,39)	Diode	KS926S2
D 1101	(B,44,57)	Diode	HZU8R2(B2)
D 1102	(B,44,53)	Diode	HZU9R1(B2)
D 1201	(B,118,87)	Diode	DAP202U
D 1401	(A,128,24)	Diode	DAP202U
D 1601	(A,58,33)	Diode	1SS355
D 1603	(A,69,51)	Diode	MA152WA
D 1604	(A,58,23)	Diode	1SS355
D 1605	(A,73,51)	Diode	MA152WA
D 1901	(B,52,102)	Diode	DAP202U
D 1902	(B,53,115)	Diode	DAP202U
D 1903	(B,57,102)	Diode	DAN202U
D 1904	(B,46,114)	Diode	DAN202U
D 2101	(A,64,106)	Diode	5KP22A
D 2121	(B,55,93)	Diode	UDZS8R2(B)
D 2122	(B,51,90)	Diode	SC016-2
D 2131	(A,39,90)	Diode	UDZS13(B)
D 2141	(A,80,98)	Diode	1SS355
D 2142	(B,68,98)	Diode	RB160L-40
D 2143	(B,68,94)	Diode	SC016-2
D 2161	(B,43,90)	Diode	UDZS5R6(B)
D 2171	(B,38,116)	Diode	UDZS5R6(B)
D 2181	(A,24,55)	Diode	HZU9R1(B1)
D 2182	(A,20,53)	Diode	DAN202U
D 2191	(B,32,116)	Diode	UDZS5R6(B)
D 2201	(A,52,94)	Diode	1SS355
D 2211	(A,42,73)	Diode	1SS355
D 2212	(A,44,79)	Diode	UDZS18(B)
D 2221	(B,41,73)	Diode	1SS355
D 2222	(B,44,79)	Diode	UDZS18(B)
D 2231	(A,43,84)	Diode	1SS355
D 2232	(A,48,83)	Diode	1SS355
D 2241	(B,43,84)	Diode	1SS355
D 2242	(B,48,82)	Diode	1SS355
D 2301	(B,119,99)	Diode	UDZS27(B)
D 2302	(B,118,97)	Diode	UDZS27(B)
D 2303	(B,123,100)	Diode	UDZS27(B)
D 2304	(B,121,95)	Diode	UDZS27(B)
D 2321	(B,98,86)	Diode	UDZS4R7(B)
D 2361	(B,150,100)	Diode	SC016-2
D 2362	(B,150,92)	Diode	UDZS8R2(B)
D 2371	(B,152,103)	Diode	HZU5R6(B3)
D 2381	(A,149,101)	Diode	SC016-2
D 2382	(A,148,95)	Diode	UDZS8R2(B)
D 2391	(A,151,105)	Diode	HZU5R6(B3)
ZNR1401	(A,164,126)	Surge Protector	DSP-201M-A21F
L 1001	(A,103,76)	Inductor	CTF1530

Circuit Symbol and No.			Part No.
L 1002	(A,99,76)	Inductor	CTF1530
L 1101	(B,55,24)	Inductor	CTF1379
L 1201	(A,133,114)	Inductor	LCTAW2R2J2520
L 1401	(A,114,44)	Inductor	CTF1607
L 1402	(A,126,64)	Inductor	CTF1607
L 1403	(A,126,70)	Inductor	CTF1607
L 1404	(A,148,104)	Coil	CTB1103
L 1405	(A,135,102)	Inductor	LCTC330K2125
L 1406	(A,126,87)	Inductor	CTF1386
L 1407	(A,129,60)	Inductor	CTF1386
L 1601	(A,107,23)	Inductor	CTF1379
L 1602	(A,61,46)	Inductor	LCTAW2R2J2520
L 1603	(A,100,43)	Inductor	CTF1379
L 1701	(A,102,47)	Inductor	CTF1379
L 1702	(A,108,96)	Inductor	CTF1379
L 1703	(A,105,93)	Inductor	CTF1379
L 1704	(B,106,102)	Inductor	CTF1379
L 1705	(A,104,109)	Inductor	CTF1379
L 1706	(A,114,107)	Inductor	CTF1379
L 1707	(A,94,84)	Inductor	CTF1379
L 1708	(A,82,94)	Inductor	CTF1379
L 1709	(B,89,116)	Inductor	CTF1379
L 1710	(A,82,97)	Inductor	CTF1379
L 1711	(A,89,116)	Inductor	CTF1379
L 1712	(A,92,116)	Inductor	CTF1379
L 1713	(B,92,97)	Inductor	CTF1379
L 1714	(B,97,107)	Inductor	CTF1379
L 1715	(A,81,105)	Inductor	CTF1379
L 1716	(B,91,106)	Inductor	CTF1379
L 1717	(B,110,97)	Inductor	CTF1379
L 1718	(B,112,100)	Inductor	CTF1379
L 1719	(B,110,79)	Inductor	CTF1379
L 1720	(B,106,79)	Inductor	CTF1379
L 1721	(B,62,74)	Inductor	CTF1379
L 1722	(B,62,76)	Inductor	CTF1379
L 1723	(B,63,81)	Inductor	CTF1379
L 1724	(B,61,81)	Inductor	CTF1379
L 1725	(B,76,86)	Inductor	CTF1379
L 1726	(B,76,88)	Inductor	CTF1379
L 1727	(B,76,90)	Inductor	CTF1379
L 1728	(B,76,92)	Inductor	CTF1379
L 1729	(A,71,99)	Inductor	CTF1379
L 1730	(A,69,92)	Inductor	CTF1379
L 1731	(A,75,111)	Inductor	CTF1379
L 1732	(A,75,106)	Inductor	CTF1379
L 1733	(B,87,88)	Inductor	CTF1379
L 1734	(B,87,86)	Inductor	CTF1379
L 1735	(B,90,86)	Inductor	CTF1379
L 1736	(B,91,85)	Inductor	CTF1379
L 1737	(A,114,117)	Inductor	CTF1379
L 1738	(B,103,94)	Inductor	CTF1379
L 1739	(A,111,109)	Inductor	CTF1379
L 1742	(B,74,115)	Inductor	CTF1379
L 1743	(B,110,104)	Inductor	CTF1379
L 1744	(B,110,106)	Inductor	CTF1379
L 1745	(B,105,107)	Inductor	CTF1379
L 1746	(B,105,109)	Inductor	CTF1379
L 1801	(A,44,72)	Inductor	CTF1379
L 1802	(A,62,77)	Inductor	CTF1379
L 1901	(A,59,96)	Inductor	CTF1379

Circuit Symbol and No.		Part No.
L 1902	(A,62,111) Inductor	CTF1379
L 2101	(A,82,119) Choke Coil 600mH	CTH1213
L 2161	(B,36,92) Inductor	CTF1410
L 2251	(B,23,44) Inductor	CTF1379
L 2252	(B,81,73) Choke Coil 22µH	CTH1217
L 2301	(A,123,84) Inductor	LCTAW2R2J2520
TH1401	(A,159,121) Poly Switch	MINISMDC014F
X 1601	(A,81,10) Resonator 16.0MHz	CSS1669
X 1701	(A,100,104) Resonator 11.2896MHz	CSS1670
S 2251	(B,5,20) Switch(OPEN)	CSN1067
S 2252	(B,5,9) Switch(HOME)	CSN1068
⚠FU2091	(B,73,127) Fuse 4A	CEK1260
FB2101	(A,82,104) Inductor	CTF1449
EF2031	(B,127,106) EMI Filter	CCG1067
EF2032	(B,124,106) EMI Filter	CCG1067
EF2033	(B,116,106) EMI Filter	CCG1067
EF2034	(B,114,106) EMI Filter	CCG1067
EF2035	(B,107,106) EMI Filter	CCG1067
EF2036	(B,105,106) EMI Filter	CCG1067
EF2037	(B,101,110) EMI Filter	CCG1067
EF2038	(B,131,115) EMI Filter	CCG1067
EF2039	(B,125,123) EMI Filter	CCG1067
EF2040	(B,121,120) EMI Filter	CCG1067
EF2041	(B,118,120) EMI Filter	CCG1067
EF2042	(B,111,120) EMI Filter	CCG1067
EF2043	(B,150,111) EMI Filter	CCG1067
EF2044	(B,145,105) EMI Filter	CCG1067
EF2045	(B,147,125) EMI Filter	CCG1067
EF2046	(B,141,125) EMI Filter	CCG1067
EF2091	(B,93,114) EMI Filter	CCG1172
	FM/AM Tuner Unit	CWE1822

RESISTORS

Circuit Symbol and No.		Part No.
R 1001	(A,24,74)	RS1/16S271J
R 1002	(A,23,74)	RS1/16S471J
R 1003	(B,19,72)	RS1/16S101J
R 1004	(B,20,72)	RS1/16S101J
R 1005	(A,16,74)	RS1/16S223J
R 1006	(A,18,74)	RS1/10S820J
R 1007	(A,20,74)	RS1/10S820J
R 1008	(B,23,70)	RS1/16S332J
R 1009	(A,16,50)	RS1/16S271J
R 1010	(A,18,51)	RS1/16S471J
R 1011	(A,15,53)	RS1/16S223J
R 1012	(A,21,56)	RS1/16S332J
R 1013	(A,21,52)	RS1/10S271J
R 1014	(A,49,40)	RS1/16S682J
R 1016	(A,49,41)	RS1/16S473J
R 1017	(A,54,45)	RS1/16S473J
R 1018	(A,51,44)	RS1/16S473J
R 1019	(A,53,43)	RS1/16S104J
R 1020	(A,52,41)	RS1/16S473J
R 1021	(A,115,65)	RN1/16SE8201D
R 1022	(A,113,65)	RN1/16SE8201D
R 1023	(A,111,64)	RN1/16SE1002D
R 1024	(A,85,63)	RN1/16SE8201D
R 1025	(A,88,63)	RN1/16SE8201D
R 1026	(A,89,61)	RN1/16SE1002D
R 1027	(B,36,52)	RS1/16S102J
R 1028	(A,33,50)	RS1/16S681J
R 1029	(B,24,60)	RS1/16S271J
R 1030	(B,24,61)	RS1/16S471J
R 1032	(A,16,64)	RS1/16S223J
R 1033	(A,25,65)	RS1/10S271J
R 1034	(A,20,62)	RS1/16S332J
R 1038	(A,46,37)	RS1/16S102J
R 1039	(A,45,41)	RS1/16S473J
R 1040	(A,15,40)	RS1/16S104J
R 1041	(A,22,45)	RS1/16S561J
R 1042	(A,25,45)	RS1/16S561J
R 1101	(B,47,57)	RS1/16S473J
R 1102	(B,47,53)	RS1/16S473J
R 1103	(B,47,56)	RS1/16S104J
R 1104	(B,47,54)	RS1/16S104J
R 1201	(A,141,117)	RS1/8S0R0J
R 1202	(A,114,92)	RS1/16S3001F
R 1203	(A,114,86)	RS1/16S3001F
R 1204	(A,114,90)	RS1/16S1002F
R 1205	(A,114,87)	RS1/16S1002F
R 1315	(B,128,12)	RS1/16S0R0J
R 1316	(A,144,15)	RS1/16S0R0J
R 1317	(B,131,12)	RS1/16S0R0J
R 1318	(A,145,18)	RS1/16S0R0J
R 1319	(A,146,15)	RS1/16S0R0J
R 1320	(B,139,10)	RS1/16S0R0J
R 1321	(B,148,11)	RS1/16S0R0J
R 1324	(A,150,18)	RS1/16S0R0J
R 1325	(A,151,15)	RS1/16S0R0J
R 1326	(B,148,9)	RS1/16S0R0J
R 1327	(A,152,18)	RS1/16S0R0J
R 1330	(A,155,15)	RS1/16S0R0J
R 1402	(A,124,33)	RS1/16S125J
R 1403	(A,125,30)	RS1/16S4702F
R 1404	(A,125,35)	RS1/16S4702F
R 1407	(A,120,43)	RS1/16S223J
R 1408	(A,120,40)	RS1/16S223J
R 1409	(A,118,35)	RS1/16S1002F
R 1410	(A,118,31)	RS1/16S1002F
R 1411	(A,119,33)	RS1/16S4700F
R 1412	(A,123,40)	RS1/16S223J
R 1413	(A,123,43)	RS1/16S223J
R 1414	(B,129,58)	RS1/16S681J
R 1415	(B,130,72)	RS1/16S681J
R 1416	(B,130,74)	RS1/16S681J
R 1417	(B,130,77)	RS1/16S681J
R 1418	(B,130,82)	RS1/16S681J
R 1419	(B,130,85)	RS1/16S681J
R 1420	(A,142,101)	RS1/16S222J
R 1421	(A,128,21)	RS1/16S102J
R 1422	(A,125,24)	RS1/16S222J
R 1425	(B,130,79)	RS1/16S681J
R 1501	(B,61,25)	RS1/16S104J
R 1502	(B,61,26)	RS1/16S104J
R 1503	(B,61,22)	RS1/16S104J
R 1504	(B,61,23)	RS1/16S104J
R 1505	(B,65,20)	RS1/16S104J
R 1506	(B,56,56)	RS1/16S224J
R 1507	(B,54,56)	RS1/16S224J
R 1508	(A,67,44)	RS1/16S102J

Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
R 1601	(B,64,17)	RS1/16S104J	R 1663	(A,72,48)	RS1/16S104J
R 1602	(A,103,35)	RS1/16S103J	R 1664	(A,85,47)	RS1/16S681J
R 1603	(A,106,20)	RS1/16S222J	R 1665	(A,86,44)	RS1/16S681J
R 1604	(A,70,10)	RS1/16S104J	R 1666	(A,86,47)	RS1/16S681J
R 1605	(A,99,17)	RS1/16S682J	R 1667	(A,87,44)	RS1/16S681J
R 1606	(B,73,23)	RS1/16S104J	R 1668	(A,56,38)	RS1/16S103J
R 1607	(A,100,32)	RS1/16S473J	R 1669	(A,56,36)	RS1/16S102J
R 1608	(A,109,20)	RS1/16S223J	R 1670	(A,50,35)	RS1/16S105J
R 1609	(A,111,16)	RS1/16S222J	R 1673	(A,62,26)	RS1/16S102J
R 1610	(B,71,21)	RS1/16S104J	R 1675	(A,72,46)	RS1/16S104J
R 1611	(A,103,32)	RS1/16S473J	R 1676	(A,89,47)	RS1/16S221J
R 1612	(A,107,20)	RS1/16S223J	R 1677	(A,91,47)	RS1/16S221J
R 1613	(B,74,23)	RS1/16S104J	R 1678	(A,82,47)	RS1/16S681J
R 1614	(A,68,44)	RS1/16S102J	R 1679	(A,83,44)	RS1/16S681J
R 1615	(B,70,12)	RS1/16S104J	R 1680	(A,83,47)	RS1/16S681J
R 1616	(B,86,22)	RS1/16S104J	R 1681	(A,84,44)	RS1/16S681J
R 1617	(B,87,18)	RS1/16S471J	R 1682	(A,65,50)	RS1/16S104J
R 1618	(B,78,16)	RS1/16S102J	R 1684	(A,77,44)	RS1/16S471J
R 1619	(B,78,18)	RS1/16S102J	R 1686	(A,89,45)	RS1/16S682J
R 1620	(A,63,35)	RS1/16S220J	R 1687	(A,85,50)	RS1/16S104J
R 1621	(A,63,33)	RS1/16S220J	R 1688	(A,65,52)	RS1/16S104J
R 1622	(A,94,19)	RS1/16S101J	R 1689	(A,55,30)	RS1/16S103J
R 1623	(B,78,23)	RS1/16S104J	R 1691	(A,57,29)	RS1/16S102J
R 1624	(A,62,16)	RS1/16S220J	R 1692	(A,87,50)	RS1/16S104J
R 1625	(A,62,15)	RS1/16S220J	R 1693	(A,92,47)	RS1/16S473J
R 1626	(A,69,13)	RS1/16S681J	R 1694	(A,66,47)	RS1/16S104J
R 1627	(A,71,13)	RS1/16S681J	R 1695	(A,52,24)	RS1/16S105J
R 1628	(A,73,13)	RS1/16S681J	R 1696	(B,60,19)	RS1/16S104J
R 1629	(B,73,12)	RS1/16S104J	R 1697	(A,62,22)	RS1/16S104J
R 1630	(B,82,23)	RS1/16S104J	R 1698	(B,90,24)	RS1/16S104J
R 1631	(B,72,12)	RS1/16S102J	R 1701	(B,98,97)	RS1/16S681J
R 1632	(A,79,15)	RS1/16S0R0J	R 1702	(B,98,99)	RS1/16S681J
R 1633	(B,90,18)	RS1/16S222J	R 1703	(B,95,98)	RS1/16S104J
R 1634	(A,99,19)	RS1/16S682J	R 1704	(B,106,103)	RS1/16S681J
R 1635	(A,94,20)	RS1/16S101J	R 1705	(B,111,97)	RS1/16S681J
R 1636	(A,99,28)	RS1/16S104J	R 1706	(B,94,97)	RS1/16S681J
R 1637	(A,100,23)	RS1/16S471J	R 1707	(B,93,112)	RS1/16S104J
R 1638	(A,97,24)	RS1/16S471J	R 1708	(B,93,111)	RS1/16S104J
R 1639	(A,100,24)	RS1/16S471J	R 1709	(B,100,107)	RS1/16S104J
R 1640	(A,63,27)	RS1/16S104J	R 1711	(B,88,107)	RS1/16S681J
R 1641	(A,100,28)	RS1/16S473J	R 1712	(B,89,107)	RS1/16S681J
R 1642	(A,50,23)	RS1/16S224J	R 1713	(A,89,100)	RS1/16S101J
R 1643	(A,97,29)	RS1/16S104J	R 1714	(A,88,100)	RS1/16S101J
R 1645	(A,49,23)	RS1/16S104J	R 1718	(A,86,100)	RS1/16S101J
R 1646	(A,97,31)	RS1/16S102J	R 1719	(B,90,100)	RS1/16S101J
R 1647	(A,95,36)	RS1/16S104J	R 1731	(A,85,100)	RS1/16S101J
R 1648	(A,95,39)	RS1/16S471J	R 1732	(A,96,104)	RS1/16S101J
R 1649	(A,96,42)	RS1/16S471J	R 1735	(A,84,103)	RS1/16S101J
R 1650	(A,96,44)	RS1/16S471J	R 1739	(B,95,105)	RS1/16S681J
R 1651	(A,96,45)	RS1/16S471J	R 1741	(A,109,105)	RS1/16S681J
R 1653	(A,96,47)	RS1/16S471J	R 1742	(A,95,100)	RS1/16S101J
R 1654	(A,93,44)	RS1/16S221J	R 1743	(A,109,107)	RS1/16S681J
R 1655	(A,60,33)	RS1/16S102J	R 1744	(A,94,100)	RS1/16S101J
R 1656	(A,63,38)	RS1/16S104J	R 1745	(A,114,100)	RS1/16S681J
R 1657	(A,92,44)	RS1/16S473J	R 1746	(B,85,107)	RS1/16S1002F
R 1658	(A,73,44)	RS1/16S102J	R 1748	(A,94,114)	RS1/16S562J
R 1659	(A,88,47)	RS1/16S681J	R 1749	(B,79,112)	RS1/16S472J
R 1660	(A,79,45)	RS1/16S102J	R 1754	(B,86,113)	RS1/16S1002F
R 1661	(A,71,44)	RS1/16S224J	R 1755	(B,83,116)	RS1/16S1002F
R 1662	(A,70,44)	RS1/16S104J	R 1756	(B,80,115)	RS1/16S1002F

Circuit Symbol and No.		Part No.
R 1757	(B,88,113)	RS1/16S3300F
R 1758	(B,89,113)	RS1/16S3300F
R 1759	(B,79,114)	RS1/16S472J
R 1801	(A,45,66)	RS1/16S6802F
R 1802	(A,53,72)	RS1/16S6802F
R 1803	(A,51,80)	RS1/16S6802F
R 1804	(A,48,80)	RS1/16S6802F
R 1805	(A,68,70)	RS1/16S6802F
R 1806	(A,70,79)	RS1/16S6802F
R 1807	(A,67,84)	RS1/16S6802F
R 1808	(A,64,84)	RS1/16S6802F
R 1809	(A,53,70)	RS1/16S5602F
R 1810	(A,45,79)	RS1/16S5602F
R 1811	(A,64,69)	RS1/16S5602F
R 1812	(A,63,82)	RS1/16S5602F
R 1813	(A,43,68)	RS1/16S5602F
R 1814	(A,53,77)	RS1/16S5602F
R 1815	(A,70,76)	RS1/16S5602F
R 1816	(A,70,83)	RS1/16S5602F
R 1817	(A,45,67)	RS1/16S5102F
R 1819	(B,46,75)	RS1/16S1003F
R 1820	(B,48,75)	RS1/16S1003F
R 1821	(B,45,75)	RS1/16S4700F
R 1822	(B,49,75)	RS1/16S4700F
R 1824	(A,57,81)	RS1/16S1003F
R 1825	(A,57,82)	RS1/16S1003F
R 1827	(A,57,85)	RS1/16S1001F
R 1828	(A,57,84)	RS1/16S1001F
R 1830	(B,52,16)	RS1/16S912J
R 1831	(B,53,13)	RS1/16S151J
R 1833	(A,53,67)	RS1/16S5102F
R 1834	(A,50,77)	RS1/16S5102F
R 1835	(A,48,79)	RS1/16S5102F
R 1836	(A,66,69)	RS1/16S5102F
R 1837	(A,70,74)	RS1/16S5102F
R 1838	(A,68,81)	RS1/16S5102F
R 1839	(A,65,81)	RS1/16S5102F
R 1840	(A,67,67)	RS1/16S0R0J
R 1901	(A,68,88)	RS1/16S3902F
R 1902	(A,66,99)	RS1/16S3902F
R 1903	(A,66,102)	RS1/16S3902F
R 1904	(A,70,114)	RS1/16S3902F
R 1905	(A,64,85)	RS1/16S1503F
R 1906	(A,63,99)	RS1/16S1503F
R 1907	(A,63,102)	RS1/16S1503F
R 1908	(A,68,116)	RS1/16S1503F
R 1909	(A,62,99)	RS1/16S1503F
R 1910	(A,65,116)	RS1/16S1503F
R 1911	(A,62,86)	RS1/16S1503F
R 1912	(A,62,102)	RS1/16S1503F
R 1913	(B,60,98)	RS1/16S4702F
R 1914	(B,59,95)	RS1/16S4702F
R 1915	(B,58,109)	RS1/16S4702F
R 1916	(B,58,114)	RS1/16S4702F
R 1917	(B,58,98)	RS1/16S4700F
R 1918	(B,57,98)	RS1/16S4700F
R 1919	(B,58,111)	RS1/16S4700F
R 1920	(B,58,112)	RS1/16S4700F
R 1921	(B,47,112)	RS1/16S182J
R 1922	(B,62,99)	RS1/16S182J

Circuit Symbol and No.		Part No.
R 1923	(B,62,104)	RS1/16S222J
R 1924	(B,67,100)	RS1/16S391J
R 1925	(B,43,116)	RS1/16S222J
R 1926	(B,50,112)	RS1/16S391J
R 1927	(B,60,102)	RS1/16S102J
R 1928	(B,46,116)	RS1/16S102J
R 2061	(B,106,73)	RS1/16S3902F
R 2062	(B,108,76)	RS1/16S3902F
R 2063	(B,103,75)	RS1/16S1002F
R 2064	(B,108,78)	RS1/16S1002F
R 2065	(B,106,66)	RS1/16S3902F
R 2066	(B,107,68)	RS1/16S3902F
R 2067	(B,106,68)	RS1/16S1002F
R 2068	(B,107,64)	RS1/16S1002F
R 2071	(B,97,73)	RS1/16S3902F
R 2072	(B,94,76)	RS1/16S3902F
R 2073	(B,99,75)	RS1/16S1002F
R 2074	(B,92,78)	RS1/16S1002F
R 2075	(B,95,65)	RS1/16S3902F
R 2076	(B,94,67)	RS1/16S3902F
R 2077	(B,96,67)	RS1/16S1002F
R 2078	(B,93,64)	RS1/16S1002F
R 2079	(B,106,75)	RS1/16S1000F
R 2080	(B,106,70)	RS1/16S1000F
R 2081	(B,96,75)	RS1/16S1000F
R 2082	(B,95,69)	RS1/16S1000F
R 2121	(B,57,95)	RS1/16S473J
R 2122	(B,58,93)	RS1/16S223J
R 2123	(B,52,94)	RS1/4S102J
R 2124	(B,49,94)	RS1/4S103J
R 2131	(A,42,89)	RS1/4S102J
R 2132	(A,40,94)	RS1/4S182J
R 2141	(A,73,92)	RS1/16S102J
R 2142	(A,78,100)	RS1/16S223J
R 2143	(A,77,96)	RS1/16S823J
R 2144	(A,83,97)	RS1/4S271J
R 2145	(A,83,92)	RS1/4S271J
R 2161	(B,46,88)	RS1/16S473J
R 2162	(B,43,93)	RS1/16S104J
R 2163	(B,41,90)	RS1/16S102J
R 2164	(B,38,90)	RS1/4S102J
R 2165	(B,38,93)	RS1/16S472J
R 2171	(B,41,114)	RS1/4S472J
R 2172	(B,31,112)	RS1/10S473J
R 2185	(A,21,58)	RS1/16S104J
R 2186	(A,23,58)	RS1/16S473J
R 2187	(A,20,50)	RS1/16S472J
R 2191	(B,35,114)	RS1/4S472J
R 2192	(B,32,119)	RS1/16S473J
R 2193	(B,33,119)	RS1/16S104J
R 2201	(A,50,86)	RS1/16S273J
R 2202	(A,46,87)	RS1/16S473J
R 2203	(A,52,87)	RS1/16S223J
R 2204	(A,46,90)	RS1/16S105J
R 2205	(A,45,92)	RS1/16S103J
R 2206	(A,53,94)	RS1/16S103J
R 2207	(A,48,95)	RS1/4S102J
R 2211	(A,42,80)	RS1/16S332J
R 2212	(A,38,65)	RS1/8S1001F
R 2213	(A,38,68)	RS1/8S1001F

Circuit Symbol and No.	Part No.
R 2214 (A,38,72)	RS1/8S1001F
R 2215 (A,38,75)	RS1/8S1001F
R 2216 (A,38,77)	RS1/8S1001F
R 2221 (B,38,72)	RS1/8S1001F
R 2222 (B,38,74)	RS1/8S1001F
R 2223 (B,41,78)	RS1/16S332J
R 2224 (B,38,68)	RS1/8S1001F
R 2225 (B,44,69)	RS1/8S1001F
R 2226 (B,38,77)	RS1/8S1001F
R 2231 (A,44,83)	RS1/16S103J
R 2232 (A,38,83)	RS1/4S471J
R 2241 (B,45,83)	RS1/16S103J
R 2242 (B,39,83)	RS1/4S471J
R 2251 (B,21,43)	RS1/16S1800D
R 2252 (B,10,43)	RS1/16S1002F
R 2253 (B,8,45)	RS1/16S1002F
R 2254 (B,10,45)	RS1/16S0R0J
R 2255 (B,10,47)	RS1/16S105J
R 2256 (B,15,46)	RS1/16S473J
R 2257 (B,18,43)	RS1/16S1502D
R 2258 (B,16,43)	RS1/16S102J
R 2302 (A,132,94)	RS1/16S223J
R 2303 (A,131,97)	RS1/16S473J
R 2304 (A,134,94)	RS1/16S223J
R 2307 (A,128,96)	RS1/16S272J
R 2308 (A,131,99)	RS1/16S102J
R 2322 (A,111,81)	RS1/16S101J
R 2323 (A,105,76)	RS1/16S2202F
R 2324 (A,109,77)	RS1/16S4702F
R 2325 (A,99,77)	RS1/16S2202F
R 2326 (A,99,80)	RS1/16S683J
R 2329 (B,102,87)	RS1/16S102J
R 2330 (A,102,76)	RS1/16S0R0J
R 2331 (A,98,84)	RS1/16S3902F
R 2335 (A,104,88)	RS1/16S3902F
R 2336 (A,99,89)	RS1/16S3902F
R 2337 (A,101,88)	RS1/16S3902F
R 2340 (A,107,89)	RS1/16S3601F
R 2341 (A,110,67)	RS1/16S3902D
R 2342 (A,109,69)	RS1/16S8201D
R 2343 (A,106,74)	RS1/16S3300F
R 2344 (A,95,70)	RS1/16S3902D
R 2345 (A,99,70)	RS1/16S8201D
R 2346 (A,100,73)	RS1/16S3300F
R 2347 (A,103,66)	RS1/16S1002F
R 2348 (A,106,65)	RS1/16S1002F
R 2361 (B,146,87)	RS1/16S473J
R 2362 (B,144,100)	RS1/4S101J
R 2363 (B,153,88)	RS1/16S473J
R 2364 (B,145,90)	RS1/16S101J
R 2365 (B,152,91)	RS1/16S473J
R 2366 (B,152,94)	RS1/16S103J
R 2371 (B,152,97)	RS1/16S221J
R 2372 (B,145,94)	RS1/16S822J
R 2373 (B,147,96)	RS1/16S223J
R 2381 (A,148,90)	RS1/16S473J
R 2382 (A,150,91)	RS1/16S473J
R 2383 (A,147,93)	RS1/16S101J
R 2384 (A,152,94)	RS1/16S473J
R 2385 (A,143,100)	RS1/4S101J

Circuit Symbol and No.	Part No.
R 2386 (A,152,96)	RS1/16S103J
R 2391 (A,141,97)	RS1/16S822J
R 2392 (A,150,99)	RS1/16S221J
R 2393 (A,143,97)	RS1/16S223J
R 2404 (A,13,55)	RS1/16S103J
R 2406 (A,13,58)	RS1/16S103J
R 2423 (B,13,68)	RS1/16S101J
R 2430 (B,56,67)	RS1/16S2702D
R 2431 (B,58,72)	RS1/16S391J
R 2435 (B,54,76)	RS1/16S2702D
R 2436 (B,53,65)	RS1/16S2702D
R 2437 (B,51,75)	RS1/16S2702D
R 2438 (B,49,69)	RS1/16S6800F
R 2439 (B,50,72)	RS1/16S6800F
R 2440 (B,56,65)	RS1/16S2703F
R 2441 (B,54,75)	RS1/16S2703F
R 2442 (B,57,72)	RS1/16S0R0J
R 2443 (B,48,67)	RS1/16S0R0J
R 2501 (A,31,31)	RS1/16S0R0J
R 2502 (A,103,95)	RS1/16S0R0J
R 2503 (A,102,95)	RS1/16S0R0J
R 2504 (A,100,95)	RS1/16S0R0J
R 2505 (A,99,95)	RS1/16S0R0J

CAPACITORS

C 1001 (A,27,75)	CKSRYB102K50
C 1002 (A,32,70) 100μF/16V	CCH1477
C 1003 (B,23,71)	CKSRYB223K50
C 1004 (A,22,49)	CKSRYB105K10
C 1005 (A,28,53) 100μF/16V	CCH1477
C 1006 (A,23,54)	CKSRYB103K50
C 1008 (A,52,45)	CKSRYB102K50
C 1010 (A,104,53) 100μF/16V	CCH1477
C 1011 (A,113,63)	CCSRCH680J50
C 1012 (A,118,69)	CEHVW100M16
C 1013 (A,98,79)	CKSRYB104K16
C 1014 (A,104,79)	CKSRYB104K16
C 1015 (A,92,76) 100μF/16V	CCH1477
C 1016 (A,110,76) 100μF/16V	CCH1477
C 1019 (A,85,66)	CKSRYB102K50
C 1020 (A,79,64) 100μF/16V	CCH1477
C 1021 (A,91,65)	CCSRCH680J50
C 1022 (A,87,69)	CEHVW100M16
C 1023 (A,59,52) 100μF/16V	CCH1477
C 1024 (A,51,52) 100μF/16V	CCH1477
C 1025 (A,43,52) 100μF/16V	CCH1477
C 1026 (A,36,55)	CEHVW100M16
C 1027 (A,38,50)	CKSRYB103K50
C 1028 (B,29,61)	CKSRYB102K50
C 1029 (A,32,62) 100μF/16V	CCH1477
C 1030 (A,23,62)	CKSRYB223K50
C 1031 (A,37,39) 100μF/16V	CCH1477
C 1032 (A,29,39) 100μF/16V	CCH1477
C 1033 (A,38,45)	CKSRYB104K16
C 1034 (A,34,44)	CKSRYB473K50
C 1035 (A,9,26) 3300μF/16V	CCH1486
C 1101 (A,57,19)	CKSRYB104K16
C 1201 (A,126,119) 100μF/16V	CCH1477
C 1207 (A,135,118)	CEHVW100M16
C 1209 (A,137,115)	CKSRYB104K16

Circuit Symbol and No.		Part No.
C 1211	(A,142,122)	CKSRYB104K16
C 1214	(A,110,92) 10μF/16V	CCH1651
C 1215	(A,110,86) 10μF/16V	CCH1651
C 1216	(A,141,113)	CKSRYB104K16
C 1402	(A,139,103)	CKSRYB103K50
C 1403	(A,158,116)	CKSRYB103K50
C 1404	(A,125,33)	CCSRCH101J50
C 1405	(A,125,29)	CKSRYB122K50
C 1406	(A,125,36)	CKSRYB122K50
C 1407	(A,111,29) 2.2μF/35V	CCH1650
C 1408	(A,111,35) 2.2μF/35V	CCH1650
C 1409	(A,119,29)	CKSRYB103K50
C 1410	(A,118,24) 100μF/16V	CCH1477
C 1411	(A,127,32)	CKSRYB332K50
C 1412	(A,128,35)	CKSRYB332K50
C 1417	(A,129,44)	CKSRYB103K50
C 1418	(A,124,48) 100μF/16V	CCH1477
C 1419	(A,118,45)	CKSRYB102K50
C 1420	(A,129,56)	CKSRYB103K50
C 1421	(A,124,58)	CEHVW470M16
C 1422	(A,122,64)	CKSRYB102K50
C 1428	(A,125,76) 100μF/16V	CCH1477
C 1429	(A,126,89)	CKSRYB103K50
C 1430	(A,122,70)	CKSRYB102K50
C 1435	(A,128,89)	CKSRYB104K16
C 1602	(A,60,42)	CEHVW100M16
C 1603	(B,80,23)	CKSRYB104K16
C 1604	(A,104,23)	CKSRYB104K16
C 1605	(B,60,38)	CKSRYB102K50
C 1606	(A,79,13)	CCSRCH120J50
C 1607	(A,83,13)	CCSRCH120J50
C 1608	(A,104,21)	CCSRCH681J50
C 1609	(A,111,18)	CCSRCH681J50
C 1610	(B,69,11)	CKSRYB105K10
C 1611	(A,100,41)	CKSRYB104K16
C 1612	(B,86,24)	CKSRYB104K16
C 1613	(B,69,22)	CKSRYB104K16
C 1614	(B,69,24)	CKSRYB104K16
C 1615	(A,63,29)	CKSRYB473K50
C 1616	(A,97,28)	CKSRYB104K16
C 1617	(A,63,31)	CKSRYB102K50
C 1618	(A,89,43)	CKSRYB104K16
C 1619	(A,79,43)	CKSRYB104K16
C 1620	(A,51,35)	CKSRYB102K50
C 1621	(A,61,24)	CKSRYB102K50
C 1622	(A,53,24)	CKSRYB102K50
C 1626	(B,92,16)	CCSRCH680J50
C 1701	(B,103,102)	CKSRYB104K16
C 1702	(B,90,98)	CCSRCH100J50
C 1703	(A,99,47)	CKSRYB104K16
C 1704	(A,101,95)	CEHVW100M16
C 1705	(A,98,96)	CKSRYB104K16
C 1707	(A,98,93)	CKSRYB104K16
C 1708	(A,100,110)	CEHVW100M16
C 1709	(A,111,96)	CKSRYB104K16
C 1710	(A,96,109)	CKSRYB104K16
C 1711	(A,92,99)	CKSRYB104K16
C 1712	(B,81,99)	CKSRYB104K16
C 1713	(A,78,100)	CEHVW100M16
C 1714	(B,91,103)	CKSRYB104K16

Circuit Symbol and No.		Part No.
C 1716	(B,77,115)	CKSRYB105K10
C 1717	(A,96,102)	CCSRCH7R0D50
C 1718	(B,84,88) 4.7μF	CCG1201
C 1719	(B,84,86) 4.7μF	CCG1201
C 1720	(A,49,30) 4.7μF	CCG1201
C 1721	(A,51,31) 4.7μF	CCG1201
C 1722	(A,96,105)	CCSRCH7R0D50
C 1723	(A,117,107)	CKSRYB104K16
C 1724	(A,84,106)	CKSRYB104K16
C 1725	(B,99,107)	CKSRYB104K16
C 1726	(A,85,84)	CKSRYB104K16
C 1727	(A,80,86)	CEHVW100M16
C 1728	(A,91,84)	CKSRYB104K16
C 1729	(A,102,86)	CEHVW100M16
C 1730	(B,81,95)	CKSRYB104K16
C 1732	(A,78,95)	CEHVW100M16
C 1734	(A,80,110)	CEHVW100M16
C 1735	(A,89,113)	CKSRYB104K16
C 1736	(A,92,114)	CKSRYB682K50
C 1737	(B,80,112)	CKSRYB104K16
C 1738	(B,85,105)	CCSRCH151J50
C 1739	(B,80,117)	CCSRCH151J50
C 1740	(A,84,116)	CEHVW100M16
C 1741	(A,92,113)	CKSRYB104K16
C 1744	(B,88,111)	CKSRYB152K50
C 1745	(B,86,116)	CKSRYB104K16
C 1746	(A,89,114)	CKSRYB104K16
C 1747	(A,98,116)	CEHVW100M16
C 1801	(B,58,74) 4.7μF	CCG1201
C 1802	(B,58,76) 4.7μF	CCG1201
C 1803	(B,58,80) 4.7μF	CCG1201
C 1804	(B,58,78) 4.7μF	CCG1201
C 1805	(B,72,88) 4.7μF	CCG1201
C 1806	(B,72,86) 4.7μF	CCG1201
C 1807	(B,72,90) 4.7μF	CCG1201
C 1808	(B,72,92) 4.7μF	CCG1201
C 1813	(A,50,66)	CCSRCH390J50
C 1814	(A,65,71)	CCSRCH390J50
C 1815	(A,45,77)	CCSRCH390J50
C 1816	(A,63,81)	CCSRCH390J50
C 1817	(A,45,72)	CKSRYB104K16
C 1818	(A,63,75)	CKSRYB104K16
C 1819	(A,45,69)	CCSRCH390J50
C 1820	(A,53,75)	CCSRCH390J50
C 1821	(A,70,73)	CCSRCH390J50
C 1822	(A,71,81)	CCSRCH390J50
C 1824	(B,45,71) 4.7μF	CCG1201
C 1825	(B,47,78) 4.7μF	CCG1201
C 1828	(A,59,79) 4.7μF	CCG1201
C 1829	(A,60,82) 4.7μF	CCG1201
C 1831	(B,51,13)	CKSRYB222K50
C 1832	(B,44,82) 4.7μF	CCG1201
C 1833	(B,50,88) 4.7μF	CCG1201
C 1834	(A,53,69)	CCSRCH201J50
C 1835	(A,48,66)	CCSRCH201J50
C 1836	(A,53,78)	CCSRCH201J50
C 1837	(A,51,81)	CCSRCH201J50
C 1838	(A,68,68)	CCSRCH201J50
C 1839	(A,70,77)	CCSRCH201J50
C 1840	(A,70,85)	CCSRCH201J50

Circuit Symbol and No.		Part No.
C 1841	(A,70,86)	CCSRCH201J50
C 1901	(A,68,92) 4.7µF	CCG1201
C 1902	(A,69,99) 4.7µF	CCG1201
C 1903	(A,73,105) 4.7µF	CCG1201
C 1904	(A,73,111) 4.7µF	CCG1201
C 1905	(A,67,114)	CCSRCH101J50
C 1906	(A,66,88)	CCSRCH101J50
C 1907	(A,65,99)	CCSRCH101J50
C 1908	(A,65,102)	CCSRCH101J50
C 1913	(A,60,86)	CCSRCH4R0D50
C 1914	(A,63,106)	CCSRCH4R0D50
C 1915	(A,60,99)	CCSRCH4R0D50
C 1916	(A,65,115)	CCSRCH4R0D50
C 1917	(A,60,96)	CKSRYB104K16
C 1918	(A,63,111)	CKSRYB104K16
C 1919	(A,58,90) 4.7µF	CCG1201
C 1920	(A,58,98) 4.7µF	CCG1201
C 1921	(A,59,106) 4.7µF	CCG1201
C 1922	(A,60,115) 4.7µF	CCG1201
C 1923	(A,53,101)	CEHVW220M16
C 1924	(A,47,115)	CEHVW220M16
C 1925	(A,53,95) 4.7µF	CCG1201
C 1926	(A,47,102) 4.7µF	CCG1201
C 1927	(A,55,108) 4.7µF	CCG1201
C 1928	(A,55,114) 4.7µF	CCG1201
C 2002	(B,46,95)	CKSYB473K50
C 2003	(B,42,96)	CKSRYB102K50
C 2004	(B,38,96)	CKSRYB102K50
C 2005	(B,36,95)	CKSRYB102K50
C 2006	(B,35,95)	CKSRYB102K50
C 2007	(B,26,110)	CKSRYB103K50
C 2008	(B,25,110)	CKSRYB102K50
C 2009	(B,21,110)	CKSRYB102K50
C 2010	(B,18,110)	CKSRYB102K50
C 2011	(B,14,110)	CKSRYB102K50
C 2012	(B,10,97)	CKSRYB102K50
C 2013	(B,43,110)	CKSRYB102K50
C 2014	(B,41,110)	CKSRYB102K50
C 2015	(B,36,110)	CKSRYB103K50
C 2016	(B,33,110)	CKSRYB103K50
C 2017	(B,28,110)	CKSRYB103K50
C 2018	(B,23,110)	CKSRYB102K50
C 2019	(B,19,110)	CKSRYB102K50
C 2020	(B,16,110)	CKSRYB102K50
C 2021	(B,126,106)	CKSRYB102K50
C 2022	(B,122,106)	CKSRYB102K50
C 2023	(B,118,106)	CKSRYB102K50
C 2024	(B,112,106)	CKSRYB102K50
C 2025	(B,109,106)	CKSRYB102K50
C 2026	(B,103,106)	CKSRYB102K50
C 2027	(B,100,107)	CKSRYB102K50
C 2028	(B,130,117)	CKSRYB102K50
C 2029	(B,124,120)	CKSRYB102K50
C 2030	(B,122,120)	CKSRYB102K50
C 2031	(B,116,120)	CKSRYB102K50
C 2032	(B,113,120)	CKSRYB102K50
C 2041	(B,150,110)	CKSRYB102K50
C 2042	(B,143,105)	CKSRYB102K50
C 2043	(B,139,105)	CKSRYB102K50
C 2044	(B,145,125)	CKSRYB102K50

Circuit Symbol and No.		Part No.
C 2045	(B,143,125)	CKSRYB102K50
C 2046	(B,137,125)	CKSRYB102K50
C 2061	(B,110,74) 4.7µF	CCG1201
C 2062	(B,110,76) 4.7µF	CCG1201
C 2064	(B,103,77)	CCSRCH101J50
C 2066	(B,110,67) 4.7µF	CCG1201
C 2067	(B,110,69) 4.7µF	CCG1201
C 2069	(B,104,68)	CCSRCH101J50
C 2071	(B,106,78)	CCSRCH101J50
C 2072	(B,106,64)	CCSRCH101J50
C 2075	(B,94,72) 4.7µF	CCG1201
C 2076	(B,92,76) 4.7µF	CCG1201
C 2078	(B,99,77)	CCSRCH101J50
C 2080	(B,92,66) 4.7µF	CCG1201
C 2081	(B,92,68) 4.7µF	CCG1201
C 2083	(B,97,67)	CCSRCH101J50
C 2085	(B,93,78)	CCSRCH101J50
C 2086	(B,91,64)	CCSRCH101J50
C 2087	(B,97,70)	CKSRYB104K16
C 2101	(B,13,84)	CKSRYB104K16
C 2104	(A,66,122) 4700µF/16V	CCH1646
C 2121	(B,58,91)	CKSRYB473K50
C 2131	(A,37,90)	CCSRCH181J50
C 2161	(B,41,93)	CKSRYB102K50
C 2171	(B,40,119)	CKSRYB103K50
C 2172	(B,42,119)	CCSRCH221J50
C 2191	(B,35,119)	CKSRYB103K50
C 2192	(B,30,114)	CCSRCH221J50
C 2201	(A,52,86)	CKSRYB103K50
C 2202	(A,54,94)	CKSRYB472K50
C 2231	(A,48,84)	CKSRYB473K50
C 2241	(B,48,84)	CKSRYB473K50
C 2251	(B,41,47)	CEHVW100M16
C 2252	(B,48,47)	CEHVW100M16
C 2253	(B,18,46)	CKSRYB102K50
C 2255	(B,16,46)	CKSRYB102K50
C 2256	(B,82,85) 39µF/16V	CCH1347
C 2257	(B,86,85)	CKSRYB105K10
C 2258	(B,73,82)	CEHVW100M16
C 2259	(B,77,83)	CKSRYB104K16
C 2260	(B,78,78)	CKSRYB473K50
C 2261	(B,68,78)	CKSRYB473K50
C 2301	(B,121,89)	CEHVW100M16
C 2302	(A,123,86)	CKSRYB223K50
C 2303	(B,118,100)	CCSRCH101J50
C 2304	(B,123,95)	CCSRCH101J50
C 2306	(A,129,100)	CKSRYB103K50
C 2322	(A,111,77)	CCSRCH271J50
C 2323	(A,102,81)	CKSRYB393K25
C 2325	(A,99,82)	CKSRYB393K25
C 2327	(B,100,86)	CKSRYB102K50
C 2328	(B,93,84) 100µF/16V	CCH1477
C 2329	(A,106,81)	CKSRYB104K16
C 2330	(A,98,86)	CCSRCH470J50
C 2335	(A,107,88)	CKSRYB334K10
C 2336	(A,99,88)	CCSRCH470J50
C 2338	(A,104,89)	CKSRYB334K10
C 2339	(A,111,85)	CKSRYB104K16
C 2341	(A,112,69) 4.7µF	CCG1201
C 2342	(A,111,69) 820pF	CCG1217

Circuit Symbol and No.		Part No.
C 2343	(A,103,73)	CKSRYB152K50
C 2344	(A,96,72) 4.7μF	CCG1201
C 2345	(A,97,70) 820pF	CCG1217
C 2346	(A,104,66)	CKSRYB104K16
C 2347	(A,106,72)	CKSRYB104K16
C 2361	(B,144,87)	CKSRYB104K16
C 2381	(A,146,90)	CKSRYB104K16
C 2403	(A,11,58)	CKSRYB104K16
C 2421	(B,39,61)	CEHVW470M16
C 2422	(A,29,77)	CFTNA224J50
C 2423	(A,29,57)	CFTNA224J50
C 2424	(A,29,67)	CFTNA224J50
C 2425	(A,29,87)	CFTNA224J50
C 2426	(B,12,65)	CKSRYB104K16
C 2427	(A,24,67)	CKSQYB225K10
C 2428	(A,24,63)	CKSYB225K16
C 2429	(B,14,70)	CKSRYB104K16
C 2430	(B,53,64)	CCSRCH470J50
C 2431	(B,51,76)	CCSRCH470J50
C 2432	(B,50,68)	CKSRYB104K16

Monitor Compound Unit
Consists of
Monitor PCB
Keyboard PCB

E F

Unit Number:
CWM9497(XD1057ZF,XD1957ZF)
Unit Name:Monitor Compound Unit

MISCELLANEOUS

IC 3001	(A,122,46) IC	PE5433A
IC 3003	(A,124,62) IC	S-29221BROI-J8T1
IC 3004	(A,112,58) IC	S-80835CNNB-B8U
IC 3005	(A,132,56) IC	TC7SH08FUS1
IC 3103	(A,81,96) IC	S-1131B25UC-N4K
IC 3104	(A,44,78) IC	TC90A64AF-P
IC 3105	(A,48,61) IC	TC7SH08FUS1
IC 3106	(A,62,43) IC	NJM082BV
IC 3107	(A,71,63) IC	NJM2138V
IC 3252	(A,110,87) IC	BD6171KV
IC 3301	(A,157,89) IC	TC7SH08FUS1
IC 3302	(A,150,83) IC	TA78L05F
IC 3303	(A,163,81) IC	OZ961ISN
IC 3304	(B,182,78) FET	TS8M1
IC 3305	(B,176,78) FET	TS8M1
Q 3051	(A,81,86) Transistor	2SC4617
Q 3052	(A,76,86) Transistor	2SC4617
Q 3053	(A,72,83) Transistor	2SA1774
Q 3061	(A,81,80) Transistor	2SC4617
Q 3062	(A,76,80) Transistor	2SC4617
Q 3063	(A,72,77) Transistor	2SA1774
Q 3071	(A,81,74) Transistor	2SC4617
Q 3072	(A,76,74) Transistor	2SC4617
Q 3073	(A,72,71) Transistor	2SA1774
Q 3101	(A,122,73) Transistor	DTC114EK

Circuit Symbol and No.		Part No.
Q 3102	(A,127,77) Transistor	2SB1260
Q 3103	(A,56,92) Transistor	2SC4617
Q 3105	(A,65,68) Transistor	UMZ1N
Q 3106	(A,57,65) Transistor	UMZ1N
Q 3107	(A,57,61) Transistor	UMZ1N
Q 3108	(A,63,53) Transistor	UMZ1N
Q 3109	(A,56,53) Transistor	UMZ1N
Q 3110	(A,48,53) Transistor	UMZ1N
Q 3111	(A,54,42) Transistor	UMT2N
Q 3112	(A,54,47) Transistorr	UMX2N
Q 3251	(A,102,99) FET	RSQ035P03
Q 3252	(A,113,100) FET	RSQ035P03
Q 3253	(A,118,80) Transistor	DTC114EE
Q 3301	(A,153,95) Transistor	2SC4617
Q 3302	(A,167,93) Transistor	2SA1385-ZS1
Q 3303	(A,153,75) Transistor	2SC4617
Q 3304	(A,153,73) Transistor	2SC4617
Q 3306	(A,156,77) Transistor	DTA144EE
Q 3335	(A,155,62) Transistor	UMZ1N
Q 3336	(A,155,66) Transistor	UMX2N
Q 3337	(A,155,59) Transistor	UMX2N
Q 3345	(A,155,69) FET	3LP01SS
D 3005	(A,64,11) Diode	UDZS5R6(B)
D 3006	(A,46,11) Diode	UDZS5R6(B)
D 3007	(A,50,11) Diode	UDZS5R6(B)
D 3008	(A,53,11) Diode	UDZS5R6(B)
D 3009	(A,57,11) Diode	UDZS5R6(B)
D 3010	(A,60,11) Diode	UDZS5R6(B)
D 3011	(A,25,40) Diode	UDZS5R6(B)
D 3012	(A,22,40) Diode	UDZS5R6(B)
D 3013	(A,18,40) Diode	UDZS5R6(B)
D 3014	(A,13,34) Diode	UDZS5R6(B)
D 3015	(A,67,11) Diode	UDZS5R6(B)
D 3016	(A,11,25) Diode	UDZS5R6(B)
D 3017	(A,7,25) Diode	UDZS5R6(B)
D 3018	(A,26,24) Diode	UDZS5R6(B)
D 3251	(A,96,104) Diode	RSX201L-30
D 3252	(A,113,105) Diode	RB160M-30
D 3253	(A,119,98) Diode	RB548W
D 3254	(A,119,93) Diode	RB548W
D 3255	(A,120,77) Diode	RB548W
D 3256	(A,116,77) Diode	RB548W
D 3257	(A,113,77) Diode	RB548W
D 3301	(A,150,72) Diode	UDZS6R8(B)
D 3302	(A,174,86) Diode	UDZS6R2(B)
D 3303	(A,174,82) Diode	UDZS6R2(B)
D 3304	(A,163,74) Diode	MA147
D 3305	(A,163,70) Diode	UDZS6R2(B)
D 3306	(A,166,70) Diode	MA147
D 3307	(A,153,78) Diode	1SS355
D 3308	(A,150,63) Diode	UDZS8R2(B)
D 3351	(A,167,86) Diode	RB751V40
D 3403	(A,180,38) LED	YBG1112H
D 3404	(A,180,52) LED	YBG1112H
D 3405	(A,178,22) LED	YBG1112H
D 3406	(A,178,15) LED	YBG1112H
D 3407	(A,126,108) LED	YBG1112H
D 3408	(A,147,108) LED	YBG1112H
D 3409	(A,84,108) LED	YBG1112H
D 3410	(A,105,108) LED	YBG1112H

Circuit Symbol and No.		Part No.
D 3411	(A,42,108) LED	YBG1112H
D 3412	(A,63,108) LED	YBG1112H
D 3413	(A,180,78) LED	YBG1112H
D 3414	(A,180,65) LED	YBG1112H
D 3415	(A,172,98) LED	YBG1112H
D 3416	(A,172,108) LED	YBG1112H
D 3421	(A,9,78) LED	YBG1112H
D 3422	(A,9,65) LED	YBG1112H
D 3423	(A,9,52) LED	YBG1112H
D 3424	(A,9,38) LED	YBG1112H
D 3425	(A,12,22) LED	YBG1112H
D 3426	(A,12,15) LED	YBG1112H
D 3427	(A,160,98) LED	CL-270PG-C
D 3428	(A,29,98) LED	CL-270PG-C
L 3001	(A,118,31) Inductor	CTF1306
L 3002	(A,121,31) Inductor	CTF1306
L 3003	(A,101,46) Inductor	LCYA100J2520
L 3051	(A,87,88) Inductor	LCYA100J2520
L 3101	(A,67,82) Inductor	LCYA100J2520
L 3102	(A,61,88) Inductor	LCYA100J2520
L 3103	(A,54,92) Inductor	CTF1306
L 3104	(A,66,71) Inductor	LCYA100J2520
L 3105	(A,64,82) Inductor	LCYA100J2520
L 3112	(A,40,94) Inductor	CTF1306
L 3113	(A,38,94) Inductor	CTF1306
L 3114	(A,37,94) Inductor	CTF1306
L 3115	(A,35,94) Inductor	CTF1306
L 3116	(A,35,92) Inductor	CTF1306
L 3117	(A,42,94) Inductor-Array	CTF1421
L 3122	(A,43,65) Inductor	CTF1306
L 3123	(A,42,63) Inductor	CTF1306
L 3124	(A,38,64) Inductor	CTF1306
L 3125	(A,34,65) Inductor	CTF1306
L 3126	(A,36,64) Inductor	CTF1306
L 3127	(A,79,60) Inductor	LCYA100J2520
L 3128	(A,71,46) Coil	LCYA101J2520
L 3129	(A,66,37) Coil	LCYA101J2520
L 3130	(A,75,58) Inductor	LCYA100J2520
L 3131	(A,43,54) Inductor	LCYA100J2520
L 3132	(A,39,54) Inductor	LCYA100J2520
L 3133	(A,35,54) Inductor	LCYA100J2520
L 3134	(A,31,54) Inductor	LCYA100J2520
L 3251	(A,91,97) Choke Coil 10µH	CTH1249
L 3252	(A,102,77) Inductor	LCYA100J2520
L 3253	(A,97,97) Choke Coil 18µH	CTH1250
L 3254	(A,126,89) Choke Coil 10µH	CTH1259
L 3255	(A,115,105) Inductor	LCYA100J2520
L 3257	(A,108,76) Inductor	LCYA100J2520
L 3258	(A,122,97) Inductor	LCYA100J2520
L 3259	(A,108,101) Choke Coil 68µH	CTH1318
L 3301	(B,176,89) Inductor	CTH1256
T 3301	(B,177,55) Transformer	CTT1119
TH3001	(A,113,34) Thermistor	CCX1051
X 3001	(A,110,46) Radiator 12.58MHz	CSS1601
X 3101	(A,49,94) Crystal Resonator 42MHz	CSS1604
S 3001	(B,17,18) Encoder (VOL)	CSD1120
VR3301	(A,171,81) Semi-fixed 15kΩ(B)	CCP1424
FB3102	(A,39,91) Ferrite Bead	CTF1528
FB3105	(A,41,64) Ferrite Bead	CTF1528
FB3104	(A,39,63) Ferrite Bead	CTF1528

Circuit Symbol and No.		Part No.
FB3103	(A,31,75) Ferrite Bead	CTF1528
FB3101	(A,45,91) Ferrite Bead	CTF1528

RESISTORS

R 3001	(A,117,57)	RS1/16S473J
R 3003	(A,114,32)	RN1/16SE1502D
R 3004	(A,106,54)	RS1/16S473J
R 3005	(A,118,34)	RS1/16S471J
R 3009	(A,111,36)	RS1/16S473J
R 3011	(A,129,32)	RS1/16S272J
R 3012	(A,132,32)	RS1/16S272J
R 3015	(A,129,34)	RS1/16S470J
R 3016	(A,132,34)	RS1/16S470J
R 3018	(A,133,44)	RS1/16S471J
R 3019	(A,109,42)	RS1/16S473J
R 3021	(A,109,55)	RS1/16S471J
R 3024	(A,140,46)	RS1/16S473J
R 3025	(A,136,56)	RS1/16S103J
R 3027	(A,118,57)	RS1/16S473J
R 3028	(A,128,58)	RS1/16S471J
R 3029	(A,129,56)	RS1/16S471J
R 3030	(A,120,57)	RS1/16S102J
R 3031	(A,115,57)	RS1/16S0R0J
R 3033	(A,115,59)	RS1/16S473J
R 3034	(A,130,62)	RS1/16S473J
R 3035	(A,135,34)	RS1/16S473J
R 3036	(A,136,34)	RS1/16S473J
R 3037	(A,138,34)	RS1/16S473J
R 3038	(A,139,34)	RS1/16S473J
R 3039	(A,122,57)	RS1/16S102J
R 3040	(A,123,57)	RS1/16S102J
R 3041	(A,125,57)	RS1/16S102J
R 3042	(A,126,57)	RS1/16S102J
R 3043	(A,130,58)	RS1/16S471J
R 3045	(A,121,34)	RS1/16S471J
R 3046	(A,133,46)	RS1/16S471J
R 3047	(A,120,34)	RS1/16S471J
R 3049	(A,110,55)	RS1/16S473J
R 3050	(A,133,60)	RS1/16S473J
R 3052	(A,82,86)	RS1/16S153J
R 3053	(A,82,83)	RS1/16S104J
R 3054	(A,80,83)	RS1/16S681J
R 3055	(A,78,83)	RS1/16S331J
R 3056	(A,78,86)	RS1/16S331J
R 3057	(A,74,83)	RS1/16S391J
R 3058	(A,74,86)	RS1/16S391J
R 3062	(A,82,80)	RS1/16S153J
R 3063	(A,82,77)	RS1/16S104J
R 3064	(A,80,77)	RS1/16S681J
R 3065	(A,78,77)	RS1/16S331J
R 3066	(A,78,80)	RS1/16S331J
R 3067	(A,74,77)	RS1/16S391J
R 3068	(A,74,80)	RS1/16S391J
R 3072	(A,82,74)	RS1/16S153J
R 3073	(A,82,71)	RS1/16S104J
R 3074	(A,80,71)	RS1/16S681J
R 3075	(A,78,71)	RS1/16S331J
R 3076	(A,78,74)	RS1/16S331J
R 3077	(A,74,71)	RS1/16S391J

Circuit Symbol and No.		Part No.
R 3078	(A,74,74)	RS1/16S391J
R 3081	(A,123,34)	RS1/16S471J
R 3082	(A,124,34)	RS1/16S471J
R 3083	(A,126,34)	RS1/16S471J
R 3084	(A,127,34)	RS1/16S471J
R 3085	(A,7,30)	RS1/16S0R0J
R 3086	(A,10,28)	RS1/16S0R0J
R 3087	(A,112,38)	RS1/16S473J
R 3088	(A,110,38)	RS1/16S473J
R 3089	(A,109,38)	RS1/16S473J
R 3090	(A,108,40)	RS1/16S473J
R 3101	(A,128,74)	RS1/16S153J
R 3102	(A,125,72)	RS1/16S472J
R 3103	(A,125,74)	RS1/16S472J
R 3109	(A,39,102)	RS1/16S472J
R 3110	(A,39,99)	RS1/16S473J
R 3111	(A,39,101)	RS1/16S473J
R 3112	(A,39,104)	RS1/16S473J
R 3122	(A,42,109)	RS1/16S104J
R 3123	(A,43,109)	RS1/16S104J
R 3124	(A,45,109)	RS1/16S104J
R 3125	(A,48,91)	RS1/16SS471J
R 3126	(A,48,90)	RS1/16SS105J
R 3127	(A,33,90)	RS1/16S333J
R 3128	(A,55,95)	RS1/16S331J
R 3129	(A,56,89)	RS1/16S152J
R 3131	(A,60,73)	RS1/16S392J
R 3132	(A,60,71)	RS1/16S473J
R 3133	(A,51,61)	RS1/16S0R0J
R 3134	(A,47,63)	RS1/16S101J
R 3135	(A,45,62)	RS1/16S101J
R 3136	(A,41,60)	RS1/16S101J
R 3137	(A,37,62)	RS1/16S470J
R 3138	(A,32,65)	RS1/16S101J
R 3139	(A,34,62)	RS1/16S101J
R 3140	(A,52,61)	RS1/16S101J
R 3141	(A,37,61)	RS1/16S101J
R 3142	(A,67,68)	RS1/16S102J
R 3143	(A,59,65)	RS1/16S102J
R 3144	(A,59,61)	RS1/16S102J
R 3145	(A,62,68)	RS1/16S272J
R 3146	(A,54,65)	RS1/16S272J
R 3147	(A,54,61)	RS1/16S272J
R 3148	(A,62,49)	RN1/16SE3002D
R 3149	(A,62,48)	RN1/16SE1203D
R 3150	(A,65,48)	RS1/16S223J
R 3151	(A,59,47)	RN1/16SE1002D
R 3152	(A,71,51)	RN1/16SE2402D
R 3153	(A,63,51)	RS1/16S331J
R 3154	(A,66,53)	RS1/16S103J
R 3155	(A,56,51)	RS1/16S331J
R 3156	(A,58,53)	RS1/16S103J
R 3157	(A,48,51)	RS1/16S331J
R 3158	(A,51,53)	RS1/16S103J
R 3159	(A,63,65)	RN1/16SE1501D
R 3160	(A,63,61)	RN1/16SE1501D
R 3161	(A,70,54)	RN1/16SE1802D
R 3162	(A,65,45)	RN1/16SE1602D
R 3163	(A,71,59)	RS1/16S102J
R 3164	(A,69,59)	RS1/16S102J
R 3165	(A,65,65)	RN1/16SE3901D
R 3166	(A,65,59)	RN1/16SE3901D
R 3167	(A,62,38)	RN1/16SE1502D
R 3168	(A,58,42)	RN1/16SE1002D
R 3169	(A,59,44)	RS1/16S101J
R 3173	(A,50,43)	RS1/16S133J
R 3174	(A,52,43)	RS1/16S0R0J
R 3175	(A,76,63)	RS1/16S102J
R 3176	(A,57,45)	RS1/16S133J
R 3177	(A,73,68)	RN1/16SE3901D
R 3178	(A,56,45)	RS1/16S0R0J
R 3179	(A,56,42)	RS1/16S100J
R 3180	(A,74,68)	RN1/16SE1501D
R 3181	(A,56,48)	RS1/16S100J
R 3182	(A,53,45)	RS1/16S0R0J
R 3183	(A,77,64)	RN1/16SE1802D
R 3184	(A,77,67)	RN1/16SE1002D
R 3186	(A,27,44)	RS1/16S333J
R 3190	(A,28,44)	RS1/16S0R0J
R 3193	(A,32,94)	RS1/16S333J
R 3251	(A,94,88)	RN1/16SE6802D
R 3252	(A,94,92)	RN1/16SE1002D
R 3253	(A,95,86)	RN1/16SE4701D
R 3254	(A,99,92)	RN1/16SE3900D
R 3255	(A,98,84)	RN1/16SE1002D
R 3256	(A,97,93)	RN1/16SE3901D
R 3257	(A,97,90)	RS1/16S103J
R 3258	(A,98,86)	RS1/16S103J
R 3259	(A,103,81)	RN1/16SE5100D
R 3260	(A,103,83)	RN1/16SE2201D
R 3261	(A,102,89)	RS1/16S153J
R 3262	(A,102,86)	RS1/16S153J
R 3263	(A,106,95)	RS1/16S104J
R 3264	(A,103,96)	RS1/16S150J
R 3265	(A,113,97)	RS1/16S150J
R 3266	(A,112,95)	RS1/16S104J
R 3267	(A,117,88)	RN1/16SE6202D
R 3270	(A,106,80)	RN1/16SE1002D
R 3271	(A,120,88)	RS1/16S821J
R 3272	(A,106,78)	RN1/16SE1802D
R 3273	(A,109,78)	RN1/16SE2202D
R 3274	(A,117,89)	RN1/16SE3303D
R 3275	(A,117,91)	RN1/16SE1802D
R 3281	(A,117,82)	RN1/16SE2703D
R 3282	(A,75,91)	RS1/16S1R0J
R 3301	(A,161,93)	RS1/16S103J
R 3302	(A,149,100)	RS1/4S222J
R 3303	(A,152,99)	RS1/4S222J
R 3304	(A,149,96)	RS1/16S103J
R 3305	(A,151,95)	RS1/16S103J
R 3306	(A,155,99)	RS1/4S222J
R 3308	(A,158,98)	RS1/4S222J
R 3310	(A,151,75)	RS1/16S103J
R 3311	(A,151,76)	RS1/16S104J
R 3313	(A,156,71)	RS1/16S473J
R 3314	(A,153,71)	RS1/16S105J
R 3315	(A,156,75)	RS1/16S333J
R 3316	(A,159,70)	RN1/16SE5102D
R 3317	(A,166,74)	RS1/16S105J
R 3318	(A,162,87)	RS1/16S102J

Circuit Symbol and No.		Part No.
R 3319	(A,169,82)	RS1/16S563J
R 3320	(A,174,85)	RS1/16S103J
R 3321	(A,174,83)	RS1/16S103J
R 3323	(A,160,70)	RN1/16SE5100D
R 3324	(A,168,57)	RS1/8S474J
R 3325	(A,168,52)	RS1/8S474J
R 3326	(A,168,46)	RS1/8S474J
R 3327	(A,168,41)	RS1/8S474J
R 3328	(A,170,38)	RS1/8S474J
R 3329	(A,170,33)	RS1/8S474J
R 3330	(A,170,28)	RS1/8S474J
R 3331	(A,153,60)	RS1/16S103J
R 3332	(A,151,59)	RS1/16S104J
R 3333	(A,160,62)	RS1/16S473J
R 3334	(A,157,69)	RS1/10S335J
R 3335	(A,159,59)	RS1/16S101J
R 3336	(A,158,62)	RS1/16S103J
R 3337	(A,153,63)	RN1/16SE4700D
R 3338	(A,152,67)	RN1/16SE1000D
R 3339	(A,152,65)	RN1/16SE1000D
R 3340	(A,159,65)	RN1/16SE8200D
R 3341	(A,158,57)	RS1/16S473J
R 3349	(A,152,71)	RS1/16S103J
R 3401	(B,180,30)	RS1/16S153J
R 3402	(A,178,18)	RS1/16S333J
R 3411	(A,173,86)	RS1/16S153J
R 3412	(A,173,72)	RS1/16S333J
R 3413	(A,173,58)	RS1/16S104J
R 3421	(A,115,103)	RS1/16S153J
R 3422	(A,136,103)	RS1/16S333J
R 3431	(B,9,85)	RS1/16S153J
R 3432	(B,10,74)	RS1/16S333J
R 3433	(B,9,58)	RS1/16S104J
R 3441	(B,7,45)	RS1/16S153J
R 3442	(B,9,30)	RS1/16S333J
R 3443	(A,12,18)	RS1/16S104J
R 3451	(B,165,104)	RS1/10S2001F
R 3452	(B,165,100)	RS1/10S1501F
R 3453	(B,167,104)	RS1/10S2001F
R 3454	(B,167,100)	RS1/10S1501F
R 3455	(B,182,44)	RS1/10S3000F
R 3456	(B,178,44)	RS1/10S3000F
R 3457	(B,182,46)	RS1/10S3000F
R 3458	(B,178,46)	RS1/10S3000F
R 3459	(B,181,16)	RS1/10S1001F
R 3460	(B,179,16)	RS1/10S7500F
R 3461	(B,181,20)	RS1/10S1001F
R 3462	(B,179,20)	RS1/10S1001F
R 3463	(B,135,105)	RS1/10S5600F
R 3464	(B,138,105)	RS1/10S1001F
R 3465	(B,138,103)	RS1/10S5600F
R 3466	(B,135,103)	RS1/10S1001F
R 3467	(B,117,105)	RS1/10S5600F
R 3468	(B,114,105)	RS1/10S1001F
R 3469	(B,117,103)	RS1/10S5600F
R 3470	(B,114,103)	RS1/10S1001F
R 3471	(B,75,103)	RS1/10S5600F
R 3472	(B,72,103)	RS1/10S1001F
R 3473	(B,75,105)	RS1/10S5600F
R 3474	(B,72,105)	RS1/10S1001F

Circuit Symbol and No.		Part No.
R 3475	(B,174,85)	RS1/10S3000F
R 3476	(B,177,85)	RS1/10S3000F
R 3477	(B,174,87)	RS1/10S3000F
R 3478	(B,177,87)	RS1/10S5600F
R 3479	(B,176,104)	RS1/10S1001F
R 3480	(B,180,104)	RS1/10S2001F
R 3481	(B,176,102)	RS1/10S1201F
R 3482	(B,180,102)	RS1/10S1501F
R 3491	(B,12,71)	RS1/10S5600F
R 3492	(B,8,71)	RS1/10S3000F
R 3493	(B,12,73)	RS1/10S3000F
R 3494	(B,8,73)	RS1/10S5600F
R 3495	(B,11,43)	RS1/10S3000F
R 3496	(B,9,43)	RS1/10S3000F
R 3497	(B,11,47)	RS1/10S3000F
R 3498	(B,9,47)	RS1/10S3000F
R 3499	(B,8,16)	RS1/10S1001F
R 3500	(B,10,16)	RS1/10S7500F
R 3501	(B,8,20)	RS1/10S1001F
R 3502	(B,10,20)	RS1/10S1001F

CAPACITORS

C 3001	(A,23,39)	CCSRCH101J50
C 3002	(A,27,39)	CCSRCH101J50
C 3003	(A,15,34)	CCSRCH101J50
C 3004	(A,20,39)	CCSRCH101J50
C 3005	(A,66,10)	CKSRYB222K50
C 3006	(A,48,10)	CKSRYB222K50
C 3007	(A,52,10)	CKSRYB222K50
C 3008	(A,55,10)	CKSRYB222K50
C 3009	(A,59,10)	CKSRYB222K50
C 3010	(A,62,10)	CKSRYB222K50
C 3011	(A,116,34)	CKSRYB104K16
C 3012	(A,105,47) 22µF	CCG1183
C 3013	(A,111,49)	CKSRYB104K16
C 3014	(A,108,49)	CKSRYB104K16
C 3016	(A,114,57)	CKSRYB105K10
C 3018	(A,110,58)	CKSRYB104K16
C 3019	(A,129,62)	CKSRYB104K16
C 3020	(A,135,56)	CKSRYB104K16
C 3025	(A,69,10)	CKSRYB222K50
C 3027	(A,10,26)	CKSRYB222K50
C 3028	(A,7,26)	CKSRYB222K50
C 3029	(A,24,24)	CKSRYB222K50
C 3051	(A,87,86)	CKSYB106K6R3
C 3052	(A,78,84)	CCSRCH470J50
C 3053	(A,76,83)	CCSRCH470J50
C 3054	(A,84,86)	CKSRYB104K16
C 3055	(A,82,89) 68µF/6.3V	CCH1440
C 3061	(A,87,80)	CKSYB106K6R3
C 3062	(A,78,79)	CCSRCH470J50
C 3063	(A,76,77)	CCSRCH470J50
C 3064	(A,84,80)	CKSRYB104K16
C 3071	(A,87,75)	CKSYB106K6R3
C 3072	(A,78,73)	CCSRCH470J50
C 3073	(A,76,71)	CCSRCH470J50
C 3074	(A,84,74)	CKSRYB104K16
C 3101	(A,129,85) 10µF	CCG1138
C 3102	(A,129,81) 10µF	CCG1138

Circuit Symbol and No.		Part No.
C 3103	(A,66,77)	CKSYB106K6R3
C 3105	(A,58,69)	CKSRYB105K10
C 3107	(A,63,72) 68μF/6.3V	CCH1440
C 3108	(A,64,80)	CKSRYB105K10
C 3130	(A,52,95)	CCSRCH9R0D50
C 3131	(A,46,95)	CCSRCH9R0D50
C 3132	(A,85,96)	CKSRYB105K10
C 3134	(A,72,93)	CKSRYB104K16
C 3135	(A,75,95) 68μF/6.3V	CCH1440
C 3136	(A,34,94)	CKSRYB104K16
C 3140	(A,55,90)	CKSSYF104Z16
C 3141	(A,52,91)	CKSRYB103K50
C 3142	(A,46,91)	CKSSYF104Z16
C 3143	(A,45,90)	CKSSYF104Z16
C 3144	(A,40,90)	CKSSYF104Z16
C 3145	(A,35,90)	CKSRYB105K10
C 3147	(A,51,91)	CCSRCH181J50
C 3149	(A,55,89)	CKSSYF104Z16
C 3151	(A,57,95)	CCSRCH4R0C50
C 3154	(A,57,87)	CKSSYF104Z16
C 3155	(A,57,86)	CKSSYF104Z16
C 3158	(A,57,85)	CKSSYF104Z16
C 3160	(A,59,84)	CKSSYF104Z16
C 3161	(A,59,83)	CKSSYF104Z16
C 3163	(A,57,84)	CKSSYF104Z16
C 3164	(A,31,82)	CKSSYF104Z16
C 3165	(A,57,83)	CKSSYF104Z16
C 3166	(A,57,82)	CKSSYF104Z16
C 3167	(A,57,81)	CKSSYF104Z16
C 3168	(A,57,80)	CKSSYF104Z16
C 3169	(A,59,82)	CKSSYF104Z16
C 3170	(A,59,81)	CKSSYF104Z16
C 3171	(A,59,80)	CKSSYF104Z16
C 3172	(A,57,79)	CKSSYF104Z16
C 3173	(A,60,79)	CKSRYB104K16
C 3174	(A,60,77)	CKSRYB104K16
C 3175	(A,60,76)	CKSRYB104K16
C 3176	(A,64,79)	CCSRCH181J50
C 3177	(A,64,77)	CCSRCH181J50
C 3178	(A,64,76)	CCSRCH181J50
C 3179	(A,58,75)	CKSSYF104Z16
C 3180	(A,56,75)	CKSSYF104Z16
C 3181	(A,31,74)	CKSSYF104Z16
C 3182	(A,60,74)	CKSRYB105K10
C 3183	(A,57,73)	CKSRYB392K50
C 3184	(A,56,71)	CKSSYF104Z16
C 3185	(A,56,69)	CKSSYF104Z16
C 3186	(A,55,67)	CKSSYF104Z16
C 3188	(A,56,67)	CKSSYF104Z16
C 3189	(A,51,65)	CKSSYF104Z16
C 3190	(A,54,66)	CKSSYF104Z16
C 3191	(A,50,64)	CKSSYF104Z16
C 3192	(A,47,64)	CKSSYF104Z16
C 3193	(A,47,65)	CKSSYF104Z16
C 3195	(A,49,65)	CKSSYF104Z16
C 3196	(A,40,65)	CKSSYF104Z16
C 3197	(A,37,59)	CCSRCH101J50
C 3198	(A,36,65)	CKSRYB105K10
C 3199	(A,46,61)	CKSRYB104K16
C 3200	(A,70,68)	CKSRYB104K16

Circuit Symbol and No.		Part No.
C 3201	(A,62,65)	CKSRYB104K16
C 3202	(A,62,61)	CKSRYB104K16
C 3203	(A,79,65) 22μF	CCG1183
C 3204	(A,68,45) 22μF	CCG1183
C 3205	(A,67,40) 4.7μF	CCG1111
C 3206	(A,65,62)	CKSRYB103K50
C 3207	(A,66,45)	CKSRYB104K16
C 3208	(A,65,40)	CKSRYB104K16
C 3209	(A,66,48)	CKSRYB104K16
C 3210	(A,68,53)	CKSQYB225K10
C 3211	(A,60,53)	CKSQYB225K10
C 3212	(A,53,53)	CKSQYB225K10
C 3213	(A,69,51)	CKSRYB103K50
C 3214	(A,65,55)	CKSRYB104K16
C 3215	(A,58,55)	CKSRYB104K16
C 3216	(A,50,55)	CKSRYB104K16
C 3217	(A,72,54) 22μF	CCG1183
C 3218	(A,76,54) 22μF	CCG1183
C 3219	(A,66,65)	CCSRCH4R0C50
C 3220	(A,66,59)	CCSRCH4R0C50
C 3221	(A,65,42)	CKSRYB104K16
C 3222	(A,45,55)	CKSRYB104K16
C 3223	(A,41,55)	CKSRYB104K16
C 3224	(A,37,55)	CKSRYB104K16
C 3225	(A,42,47)	CKSRYB104K16
C 3226	(A,39,47)	CKSRYB104K16
C 3227	(A,36,46)	CKSRYB104K16
C 3228	(A,33,55)	CKSRYB104K16
C 3229	(A,44,50) 4.7μF	CCG1111
C 3230	(A,40,50) 22μF	CCG1183
C 3231	(A,36,50)	CKSYB106K6R3
C 3232	(A,71,68)	CCSRCH4R0C50
C 3233	(A,32,50) 4.7μF	CCG1111
C 3234	(A,76,67)	CKSRYB104K16
C 3235	(A,32,46)	CKSRYB104K16
C 3252	(A,96,88)	CCSRCH271J50
C 3255	(A,115,73)	CKSQYB225K10
C 3256	(A,99,75)	CKSRYB104K16
C 3258	(A,99,89)	CKSRYB393K16
C 3259	(A,93,104) 68μF/6.3V	CCH1440
C 3260	(A,97,92)	CCSRCH331J50
C 3261	(A,98,87)	CCSRCH331J50
C 3262	(A,92,101)	CKSRYB104K16
C 3263	(A,101,83)	CKSRYB104K16
C 3264	(A,102,79)	CKSYB475K16
C 3265	(A,103,92)	CKSRYB103K50
C 3266	(A,100,89)	CKSRYB473K50
C 3267	(A,100,86)	CKSRYB103K50
C 3268	(A,103,89)	CCSRCH101J50
C 3269	(A,103,86)	CCSRCH100D50
C 3270	(A,101,84)	CKSRYB393K16
C 3271	(A,106,94)	CKSRYB104K16
C 3272	(A,103,105) 10μF	CCG1138
C 3273	(A,99,105) 10μF	CCG1138
C 3274	(A,108,94)	CKSRYB105K10
C 3275	(A,118,105) 10μF	CCG1138
C 3276	(A,109,94)	CCSRCH102J50
C 3278	(A,112,94)	CKSRYB104K16
C 3279	(A,111,81)	CCSRCH102J50
C 3280	(A,108,80)	CKSRYB105K10

Circuit Symbol and No.		Part No.
C 3281	(A,115,95)	CKSRYB105K10
C 3282	(A,115,94)	CKSRYB103K50
C 3283	(A,110,106)	CKSRYB104K16
C 3284	(A,122,87)	CKSYB475K16
C 3285	(A,107,107) 22µF	CCG1183
C 3286	(A,116,108)	CKSRYB104K16
C 3287	(A,118,96)	CKSRYB472K50
C 3288	(A,118,95)	CKSRYB472K50
C 3289	(A,121,78)	CKSRYB474K10
C 3290	(A,118,78)	CKSRYB474K10
C 3291	(A,114,78)	CKSRYB474K10
C 3292	(A,120,91)	CKSRYB104K16
C 3293	(A,121,92)	CKSQYF105Z25
C 3294	(A,119,73)	CKSQYB105K16
C 3295	(A,117,73)	CKSQYB105K16
C 3296	(A,113,73)	CKSQYB225K10
C 3297	(A,121,101)	CKSQYB105K16
C 3298	(A,121,99)	CKSQYB105K16
C 3299	(A,109,74)	CKSQYB105K16
C 3300	(A,123,94)	CKSQYF105Z25
C 3301	(A,146,93) 10µF	CCG1138
C 3302	(A,174,92) 10µF	CCG1138
C 3303	(A,150,91) 10µF	CCG1138
C 3304	(A,150,88) 10µF	CCG1138
C 3305	(A,154,86)	CKSRYB104K16
C 3306	(A,156,85)	CKSRYB104K16
C 3307	(A,154,83)	CKSRYB105K10
C 3308	(A,156,87)	CKSRYB105K10
C 3309	(A,157,83)	CKSQYB105K16
C 3310	(A,155,89)	CKSRYB104K16
C 3311	(A,157,79)	CKSRYB104K16
C 3312	(A,158,81)	CKSRYB105K10
C 3314	(A,159,75)	CFHXSQ822J16
C 3315	(A,161,75)	CKSRYB152K50
C 3316	(A,167,74)	CKSRYB103K50
C 3317	(A,167,82)	CCSRCH221J50
C 3318	(A,168,85)	CKSRYB473K50
C 3319	(A,168,79)	CKSRYB473K50
C 3320	(B,182,84) 10µF	CCG1138
C 3321	(B,182,88) 10µF	CCG1138
C 3322	(B,173,79)	CKSQYB104K50
C 3323	(B,179,79)	CKSQYB104K50
C 3324	(B,183,73)	CKSQYB105K16
C 3325	(B,185,74)	CKSQYB105K16
C 3326	(B,177,34) 22pF	CCG1140
C 3327	(B,173,34)	CKSRYB223K50
C 3328	(A,165,58)	CKSQYB104K50
C 3335	(A,160,57)	CKSRYB104K16
C 3336	(A,156,64)	CKSRYB104K16

Monitor Compound Unit
Consists of
Monitor PCB
Keyboard PCB

E F

Unit Number:CWM9579(XD1557ZF)
Unit Name:Monitor Compound Unit

MISCELLANEOUS

Circuit Symbol and No.			Part No.
IC 3001	(A,122,46)	IC	PE5433A
IC 3003	(A,124,62)	IC	S-29221BROI-J8T1
IC 3004	(A,112,58)	IC	S-80835CNNB-B8U
IC 3005	(A,132,56)	IC	TC7SH08FUS1
IC 3103	(A,81,96)	IC	S-1131B25UC-N4K
IC 3104	(A,44,78)	IC	TC90A64AF-P
IC 3105	(A,48,61)	IC	TC7SH08FUS1
IC 3106	(A,62,43)	IC	NJM082BV
IC 3107	(A,71,63)	IC	NJM2138V
IC 3252	(A,110,87)	IC	BD6171KV
IC 3301	(A,157,89)	IC	TC7SH08FUS1
IC 3302	(A,150,83)	IC	TA78L05F
IC 3303	(A,163,81)	IC	OZ961ISN
IC 3304	(B,182,78)	FET	TS8M1
IC 3305	(B,176,78)	FET	TS8M1
Q 3051	(A,81,86)	Transistor	2SC4617
Q 3052	(A,76,86)	Transistor	2SC4617
Q 3053	(A,72,83)	Transistor	2SA1774
Q 3061	(A,81,80)	Transistor	2SC4617
Q 3062	(A,76,80)	Transistor	2SC4617
Q 3063	(A,72,77)	Transistor	2SA1774
Q 3071	(A,81,74)	Transistor	2SC4617
Q 3072	(A,76,74)	Transistor	2SC4617
Q 3073	(A,72,71)	Transistor	2SA1774
Q 3101	(A,122,73)	Transistor	DTC114EK
Q 3102	(A,127,77)	Transistor	2SB1260
Q 3103	(A,56,92)	Transistor	2SC4617
Q 3105	(A,65,68)	Transistor	UMZ1N
Q 3106	(A,57,65)	Transistor	UMZ1N
Q 3107	(A,57,61)	Transistor	UMZ1N
Q 3108	(A,63,53)	Transistor	UMZ1N
Q 3109	(A,56,53)	Transistor	UMZ1N
Q 3110	(A,48,53)	Transistor	UMZ1N
Q 3111	(A,54,42)	Transistor	UMT2N
Q 3112	(A,54,47)	Transistor	UMX2N
Q 3251	(A,102,99)	FET	RSQ035P03
Q 3252	(A,113,100)	FET	RSQ035P03
Q 3253	(A,118,80)	Transistor	DTC114EE
Q 3301	(A,153,95)	Transistor	2SC4617
Q 3302	(A,167,93)	Transistor	2SA1385-ZS1
Q 3303	(A,153,75)	Transistor	2SC4617
Q 3304	(A,153,73)	Transistor	2SC4617
Q 3306	(A,156,77)	Transistor	DTA144EE
Q 3335	(A,155,62)	Transistor	UMZ1N
Q 3336	(A,155,66)	Transistor	UMX2N
Q 3337	(A,155,59)	Transistor	UMX2N
Q 3345	(A,155,69)	FET	3LP01SS
D 3005	(A,64,11)	Diode	UDZS5R6(B)
D 3006	(A,46,11)	Diode	UDZS5R6(B)
D 3007	(A,50,11)	Diode	UDZS5R6(B)
D 3008	(A,53,11)	Diode	UDZS5R6(B)
D 3009	(A,57,11)	Diode	UDZS5R6(B)
D 3010	(A,60,11)	Diode	UDZS5R6(B)
D 3011	(A,25,40)	Diode	UDZS5R6(B)
D 3012	(A,22,40)	Diode	UDZS5R6(B)
D 3013	(A,18,40)	Diode	UDZS5R6(B)
D 3014	(A,13,34)	Diode	UDZS5R6(B)

Circuit Symbol and No.		Part No.
D 3015	(A,67,11) Diode	UDZS5R6(B)
D 3016	(A,11,25) Diode	UDZS5R6(B)
D 3017	(A,7,25) Diode	UDZS5R6(B)
D 3018	(A,26,24) Diode	UDZS5R6(B)
D 3251	(A,96,104) Diode	RSX201L-30
D 3252	(A,113,105) Diode	RB160M-30
D 3253	(A,119,98) Diode	RB548W
D 3254	(A,119,93) Diode	RB548W
D 3255	(A,120,77) Diode	RB548W
D 3256	(A,116,77) Diode	RB548W
D 3257	(A,113,77) Diode	RB548W
D 3301	(A,150,72) Diode	UDZS6R8(B)
D 3302	(A,174,86) Diode	UDZS6R2(B)
D 3303	(A,174,82) Diode	UDZS6R2(B)
D 3304	(A,163,74) Diode	MA147
D 3305	(A,163,70) Diode	UDZS6R2(B)
D 3306	(A,166,70) Diode	MA147
D 3307	(A,153,78) Diode	1SS355
D 3308	(A,150,63) Diode	UDZS8R2(B)
D 3351	(A,167,86) Diode	RB751V40
D 3403	(A,180,38) LED	NESW007-4436
D 3404	(A,180,52) LED	NESW007-4436
D 3405	(A,178,22) LED	NESW007-4436
D 3406	(A,178,15) LED	NESW007-4436
D 3407	(A,126,108) LED	NESW007-4436
D 3408	(A,147,108) LED	NESW007-4436
D 3409	(A,84,108) LED	NESW007-4436
D 3410	(A,105,108) LED	NESW007-4436
D 3411	(A,42,108) LED	NESW007-4436
D 3412	(A,63,108) LED	NESW007-4436
D 3413	(A,180,78) LED	NESW007-4436
D 3414	(A,180,65) LED	NESW007-4436
D 3415	(A,172,98) LED	NESW007-4436
D 3416	(A,172,108) LED	NESW007-4436
D 3417	(A,13,95) LED	NESW007-4436
D 3418	(A,9,104) LED	NESW007-4436
D 3419	(A,21,111) LED	NESW007-4436
D 3420	(A,25,102) LED	NESW007-4436
D 3421	(A,9,78) LED	NESW007-4436
D 3422	(A,9,65) LED	NESW007-4436
D 3423	(A,9,52) LED	NESW007-4436
D 3424	(A,9,38) LED	NESW007-4436
D 3425	(A,12,22) LED	NESW007-4436
D 3426	(A,12,15) LED	NESW007-4436
D 3427	(A,160,98) LED	CL-270WA-D
D 3428	(A,29,98) LED	CL-270WA-D
L 3001	(A,118,31) Inductor	CTF1306
L 3002	(A,121,31) Inductor	CTF1306
L 3003	(A,101,46) Inductor	LCYA100J2520
L 3051	(A,87,88) Inductor	LCYA100J2520
L 3101	(A,67,82) Inductor	LCYA100J2520
L 3102	(A,61,88) Inductor	LCYA100J2520
L 3103	(A,54,92) Inductor	CTF1306
L 3104	(A,66,71) Inductor	LCYA100J2520
L 3105	(A,64,82) Inductor	LCYA100J2520
L 3112	(A,40,94) Inductor	CTF1306
L 3113	(A,38,94) Inductor	CTF1306
L 3114	(A,37,94) Inductor	CTF1306
L 3115	(A,35,94) Inductor	CTF1306
L 3116	(A,35,92) Inductor	CTF1306

Circuit Symbol and No.		Part No.
L 3117	(A,42,94) Inductor-Array	CTF1421
L 3122	(A,43,65) Inductor	CTF1306
L 3123	(A,42,63) Inductor	CTF1306
L 3124	(A,38,64) Inductor	CTF1306
L 3125	(A,34,65) Inductor	CTF1306
L 3126	(A,36,64) Inductor	CTF1306
L 3127	(A,79,60) Inductor	LCYA100J2520
L 3128	(A,71,46) Coil	LCYA101J2520
L 3129	(A,66,37) Coil	LCYA101J2520
L 3130	(A,75,58) Inductor	LCYA100J2520
L 3131	(A,43,54) Inductor	LCYA100J2520
L 3132	(A,39,54) Inductor	LCYA100J2520
L 3133	(A,35,54) Inductor	LCYA100J2520
L 3134	(A,31,54) Inductor	LCYA100J2520
L 3251	(A,91,97) Choke Coil 10μH	CTH1249
L 3252	(A,102,77) Inductor	LCYA100J2520
L 3253	(A,97,97) Choke Coil 18μH	CTH1250
L 3254	(A,126,89) Choke Coil 10μH	CTH1259
L 3255	(A,115,105) Inductor	LCYA100J2520
L 3257	(A,108,76) Inductor	LCYA100J2520
L 3258	(A,122,97) Inductor	LCYA100J2520
L 3259	(A,108,101) Choke Coil 68μH	CTH1318
L 3301	(B,176,89) Inductor	CTH1256
T 3301	(B,177,55) Transformer	CTT1119
TH3001	(A,113,34) Thermistor	CCX1051
X 3001	(A,110,46) Radiator 12.58MHz	CSS1601
X 3101	(A,49,94) Crystal Resonator 42MHz	CSS1604
S 3001	(B,17,18) Encoder(VOL)	CSD1121
VR3301	(A,171,81) Semi-fixed 15kΩ(B)	CCP1424
FB3105	(A,41,64) Ferrite Bead	CTF1528
FB3104	(A,39,63) Ferrite Bead	CTF1528
FB3103	(A,31,75) Ferrite Bead	CTF1528
FB3101	(A,45,91) Ferrite Bead	CTF1528
FB3102	(A,39,91) Ferrite Bead	CTF1528

RESISTORS

R 3001	(A,117,57)	RS1/16S473J
R 3003	(A,114,32)	RN1/16SE1502D
R 3004	(A,106,54)	RS1/16S473J
R 3005	(A,118,34)	RS1/16S471J
R 3009	(A,111,36)	RS1/16S473J
R 3011	(A,129,32)	RS1/16S272J
R 3012	(A,132,32)	RS1/16S272J
R 3015	(A,129,34)	RS1/16S470J
R 3016	(A,132,34)	RS1/16S470J
R 3018	(A,133,44)	RS1/16S471J
R 3019	(A,109,42)	RS1/16S473J
R 3021	(A,109,55)	RS1/16S471J
R 3024	(A,140,46)	RS1/16S473J
R 3025	(A,136,56)	RS1/16S103J
R 3027	(A,118,57)	RS1/16S473J
R 3028	(A,128,58)	RS1/16S471J
R 3029	(A,129,56)	RS1/16S471J
R 3030	(A,120,57)	RS1/16S102J
R 3031	(A,115,57)	RS1/16S0R0J
R 3033	(A,115,59)	RS1/16S473J
R 3034	(A,130,62)	RS1/16S473J
R 3035	(A,135,34)	RS1/16S473J
R 3036	(A,136,34)	RS1/16S473J

	Circuit Symbol and No.		Part No.	Circuit Symbol and No.		Part No.
	R 3037	(A,138,34)	RS1/16S473J	R 3133	(A,51,61)	RS1/16S0R0J
	R 3038	(A,139,34)	RS1/16S473J	R 3134	(A,47,63)	RS1/16S101J
A	R 3039	(A,122,57)	RS1/16S102J	R 3135	(A,45,62)	RS1/16S101J
	R 3040	(A,123,57)	RS1/16S102J	R 3136	(A,41,60)	RS1/16S101J
	R 3041	(A,125,57)	RS1/16S102J	R 3137	(A,37,62)	RS1/16S470J
	R 3042	(A,126,57)	RS1/16S102J	R 3138	(A,32,65)	RS1/16S101J
	R 3043	(A,130,58)	RS1/16S471J	R 3139	(A,34,62)	RS1/16S101J
	R 3045	(A,121,34)	RS1/16S471J	R 3140	(A,52,61)	RS1/16S101J
	R 3046	(A,133,46)	RS1/16S471J	R 3141	(A,37,61)	RS1/16S101J
	R 3047	(A,120,34)	RS1/16S471J	R 3142	(A,67,68)	RS1/16S102J
	R 3049	(A,110,55)	RS1/16S473J	R 3143	(A,59,65)	RS1/16S102J
	R 3050	(A,133,60)	RS1/16S473J	R 3144	(A,59,61)	RS1/16S102J
	R 3052	(A,82,86)	RS1/16S153J	R 3145	(A,62,68)	RS1/16S272J
B	R 3053	(A,82,83)	RS1/16S104J	R 3146	(A,54,65)	RS1/16S272J
	R 3054	(A,80,83)	RS1/16S681J	R 3147	(A,54,61)	RS1/16S272J
	R 3055	(A,78,83)	RS1/16S331J	R 3148	(A,62,49)	RN1/16SE3002D
	R 3056	(A,78,86)	RS1/16S331J	R 3149	(A,62,48)	RN1/16SE1203D
	R 3057	(A,74,83)	RS1/16S391J	R 3150	(A,65,48)	RS1/16S223J
	R 3058	(A,74,86)	RS1/16S391J	R 3151	(A,59,47)	RN1/16SE1002D
	R 3062	(A,82,80)	RS1/16S153J	R 3152	(A,71,51)	RN1/16SE2402D
	R 3063	(A,82,77)	RS1/16S104J	R 3153	(A,63,51)	RS1/16S331J
	R 3064	(A,80,77)	RS1/16S681J	R 3154	(A,66,53)	RS1/16S103J
	R 3065	(A,78,77)	RS1/16S331J	R 3155	(A,56,51)	RS1/16S331J
	R 3066	(A,78,80)	RS1/16S331J	R 3156	(A,58,53)	RS1/16S103J
C	R 3067	(A,74,77)	RS1/16S391J	R 3157	(A,48,51)	RS1/16S331J
	R 3068	(A,74,80)	RS1/16S391J	R 3158	(A,51,53)	RS1/16S103J
	R 3072	(A,82,74)	RS1/16S153J	R 3159	(A,63,65)	RN1/16SE1501D
	R 3073	(A,82,71)	RS1/16S104J	R 3160	(A,63,61)	RN1/16SE1501D
	R 3074	(A,80,71)	RS1/16S681J	R 3161	(A,70,54)	RN1/16SE1802D
	R 3075	(A,78,71)	RS1/16S331J	R 3162	(A,65,45)	RN1/16SE1602D
	R 3076	(A,78,74)	RS1/16S331J	R 3163	(A,71,59)	RS1/16S102J
	R 3077	(A,74,71)	RS1/16S391J	R 3164	(A,69,59)	RS1/16S102J
	R 3078	(A,74,74)	RS1/16S391J	R 3165	(A,65,65)	RN1/16SE3901D
	R 3081	(A,123,34)	RS1/16S471J	R 3166	(A,65,59)	RN1/16SE3901D
	R 3082	(A,124,34)	RS1/16S471J	R 3167	(A,62,38)	RN1/16SE1502D
D	R 3083	(A,126,34)	RS1/16S471J	R 3168	(A,58,42)	RN1/16SE1002D
	R 3084	(A,127,34)	RS1/16S471J	R 3169	(A,59,44)	RS1/16S101J
	R 3087	(A,112,38)	RS1/16S473J	R 3173	(A,50,43)	RS1/16S133J
	R 3088	(A,110,38)	RS1/16S473J	R 3174	(A,52,43)	RS1/16S0R0J
	R 3089	(A,109,38)	RS1/16S473J	R 3175	(A,76,63)	RS1/16S102J
	R 3090	(A,108,40)	RS1/16S473J	R 3176	(A,57,45)	RS1/16S133J
	R 3094	(A,7,28)	RS1/16S0R0J	R 3177	(A,73,68)	RN1/16SE3901D
	R 3095	(A,10,30)	RS1/16S0R0J	R 3178	(A,56,45)	RS1/16S0R0J
	R 3101	(A,128,74)	RS1/16S153J	R 3179	(A,56,42)	RS1/16S100J
	R 3102	(A,125,72)	RS1/16S472J	R 3180	(A,74,68)	RN1/16SE1501D
E	R 3103	(A,125,74)	RS1/16S472J	R 3181	(A,56,48)	RS1/16S100J
	R 3109	(A,39,102)	RS1/16S472J	R 3182	(A,53,45)	RS1/16S0R0J
	R 3110	(A,39,99)	RS1/16S473J	R 3183	(A,77,64)	RN1/16SE1802D
	R 3111	(A,39,101)	RS1/16S473J	R 3184	(A,77,67)	RN1/16SE1002D
	R 3112	(A,39,104)	RS1/16S473J	R 3186	(A,27,44)	RS1/16S333J
	R 3122	(A,42,109)	RS1/16S104J	R 3190	(A,28,44)	RS1/16S0R0J
	R 3123	(A,43,109)	RS1/16S104J	R 3193	(A,32,94)	RS1/16S333J
	R 3124	(A,45,109)	RS1/16S104J	R 3251	(A,94,88)	RN1/16SE6802D
	R 3125	(A,48,91)	RS1/16SS471J	R 3252	(A,94,92)	RN1/16SE1002D
	R 3126	(A,48,90)	RS1/16SS105J	R 3253	(A,95,86)	RN1/16SE4701D
	R 3127	(A,33,90)	RS1/16S333J	R 3254	(A,99,92)	RN1/16SE3900D
F	R 3128	(A,55,95)	RS1/16S331J	R 3255	(A,98,84)	RN1/16SE1002D
	R 3129	(A,56,89)	RS1/16S152J	R 3256	(A,97,93)	RN1/16SE3901D
	R 3131	(A,60,73)	RS1/16S392J	R 3257	(A,97,90)	RS1/16S103J
	R 3132	(A,60,71)	RS1/16S473J	R 3258	(A,98,86)	RS1/16S103J

Circuit Symbol and No.			Part No.	Circuit Symbol and No.			Part No.
R	3259	(A,103,81)	RN1/16SE5100D	R	3421	(A,115,103)	RS1/16S153J
R	3260	(A,103,83)	RN1/16SE2201D	R	3422	(A,136,103)	RS1/16S333J
R	3261	(A,102,89)	RS1/16S153J	R	3431	(B,9,85)	RS1/16S153J
R	3262	(A,102,86)	RS1/16S153J	R	3432	(B,10,74)	RS1/16S333J
R	3263	(A,106,95)	RS1/16S104J	R	3433	(B,9,58)	RS1/16S104J
R	3264	(A,103,96)	RS1/16S150J	R	3441	(B,7,45)	RS1/16S153J
R	3265	(A,113,97)	RS1/16S150J	R	3442	(B,9,30)	RS1/16S333J
R	3266	(A,112,95)	RS1/16S104J	R	3443	(A,12,18)	RS1/16S104J
R	3267	(A,117,88)	RN1/16SE6202D	R	3451	(B,165,104)	RS1/10S1202F
R	3270	(A,106,80)	RN1/16SE1002D	R	3452	(B,165,100)	RS1/10S1202F
R	3271	(A,120,88)	RS1/16S821J	R	3453	(B,167,104)	RS1/10S2401F
R	3272	(A,106,78)	RN1/16SE1802D	R	3454	(B,167,100)	RS1/10S1202F
R	3273	(A,109,78)	RN1/16SE2202D	R	3455	(B,182,44)	RS1/10S1001F
R	3274	(A,117,89)	RN1/16SE3303D	R	3456	(B,178,44)	RS1/10S2401F
R	3275	(A,117,91)	RN1/16SE1802D	R	3457	(B,182,46)	RS1/10S5600F
R	3281	(A,117,82)	RN1/16SE2703D	R	3458	(B,178,46)	RS1/10S2401F
R	3282	(A,75,91)	RS1/16S1R0J	R	3459	(B,181,16)	RS1/10S2001F
R	3301	(A,161,93)	RS1/16S103J	R	3460	(B,179,16)	RS1/10S2401F
R	3302	(A,149,100)	RS1/4S222J	R	3461	(B,181,20)	RS1/10S2001F
R	3303	(A,152,99)	RS1/4S222J	R	3462	(B,179,20)	RS1/10S2401F
R	3304	(A,149,96)	RS1/16S103J	R	3463	(B,135,105)	RS1/10S2401F
R	3305	(A,151,95)	RS1/16S103J	R	3464	(B,138,105)	RS1/10S2401F
R	3306	(A,155,99)	RS1/4S222J	R	3465	(B,138,103)	RS1/10S2401F
R	3308	(A,158,98)	RS1/4S222J	R	3466	(B,135,103)	RS1/10S2401F
R	3310	(A,151,75)	RS1/16S103J	R	3467	(B,117,105)	RS1/10S2401F
R	3311	(A,151,76)	RS1/16S104J	R	3468	(B,114,105)	RS1/10S2401F
R	3313	(A,156,71)	RS1/16S473J	R	3469	(B,117,103)	RS1/10S2401F
R	3314	(A,153,71)	RS1/16S105J	R	3470	(B,114,103)	RS1/10S2401F
R	3315	(A,156,75)	RS1/16S333J	R	3471	(B,75,103)	RS1/10S2401F
R	3316	(A,159,70)	RN1/16SE5102D	R	3472	(B,72,103)	RS1/10S2401F
R	3317	(A,166,74)	RS1/16S105J	R	3473	(B,75,105)	RS1/10S2401F
R	3318	(A,162,87)	RS1/16S102J	R	3474	(B,72,105)	RS1/10S2401F
R	3319	(A,169,82)	RS1/16S563J	R	3475	(B,174,85)	RS1/10S1001F
R	3320	(A,174,85)	RS1/16S103J	R	3476	(B,177,85)	RS1/10S2401F
R	3321	(A,174,83)	RS1/16S103J	R	3477	(B,174,87)	RS1/10S1201F
R	3323	(A,160,70)	RN1/16SE5100D	R	3478	(B,177,87)	RS1/10S2401F
R	3324	(A,168,57)	RS1/8S474J	R	3479	(B,176,104)	RS1/10S2001F
R	3325	(A,168,52)	RS1/8S474J	R	3480	(B,180,104)	RS1/10S3601F
R	3326	(A,168,46)	RS1/8S474J	R	3481	(B,176,102)	RS1/10S3601F
R	3327	(A,168,41)	RS1/8S474J	R	3482	(B,180,102)	RS1/10S6201F
R	3328	(A,170,38)	RS1/8S474J	R	3483	(B,10,83)	RS1/10S7500F
R	3329	(A,170,33)	RS1/8S474J	R	3484	(B,10,86)	RS1/10S7500F
R	3330	(A,170,28)	RS1/8S474J	R	3485	(B,12,83)	RS1/10S7500F
R	3331	(A,153,60)	RS1/16S103J	R	3486	(B,12,86)	RS1/10S7500F
R	3332	(A,151,59)	RS1/16S104J	R	3487	(B,55,103)	RS1/10S7500F
R	3333	(A,160,62)	RS1/16S473J	R	3488	(B,51,103)	RS1/10S7500F
R	3334	(A,157,69)	RS1/10S335J	R	3489	(B,55,105)	RS1/10S7500F
R	3335	(A,159,59)	RS1/16S101J	R	3490	(B,51,105)	RS1/10S7500F
R	3336	(A,158,62)	RS1/16S103J	R	3491	(B,12,71)	RS1/10S1201F
R	3337	(A,153,63)	RN1/16SE4700D	R	3492	(B,8,71)	RS1/10S2401F
R	3338	(A,152,67)	RN1/16SE1000D	R	3493	(B,12,73)	RS1/10S1201F
R	3339	(A,152,65)	RN1/16SE1000D	R	3494	(B,8,73)	RS1/10S2401F
R	3340	(A,159,65)	RN1/16SE8200D	R	3495	(B,11,43)	RS1/10S1201F
R	3341	(A,158,57)	RS1/16S473J	R	3496	(B,9,43)	RS1/10S1201F
R	3349	(A,152,71)	RS1/16S103J	R	3497	(B,11,47)	RS1/10S5600F
R	3401	(B,180,30)	RS1/16S153J	R	3498	(B,9,47)	RS1/10S2401F
R	3402	(A,178,18)	RS1/16S333J	R	3499	(B,8,16)	RS1/10S2001F
R	3411	(A,173,86)	RS1/16S153J	R	3500	(B,10,16)	RS1/10S2401F
R	3412	(A,173,72)	RS1/16S333J	R	3501	(B,8,20)	RS1/10S2001F
R	3413	(A,173,58)	RS1/16S104J	R	3502	(B,10,20)	RS1/10S2401F

CAPACITORS

Circuit Symbol and No.			Part No.
C 3001	(A,23,39)		CCSRCH101J50
C 3002	(A,27,39)		CCSRCH101J50
C 3003	(A,15,34)		CCSRCH101J50
C 3004	(A,20,39)		CCSRCH101J50
C 3005	(A,66,10)		CKSRYB222K50
C 3006	(A,48,10)		CKSRYB222K50
C 3007	(A,52,10)		CKSRYB222K50
C 3008	(A,55,10)		CKSRYB222K50
C 3009	(A,59,10)		CKSRYB222K50
C 3010	(A,62,10)		CKSRYB222K50
C 3011	(A,116,34)		CKSRYB104K16
C 3012	(A,105,47)	22µF	CCG1183
C 3013	(A,111,49)		CKSRYB104K16
C 3014	(A,108,49)		CKSRYB104K16
C 3016	(A,114,57)		CKSRYB105K10
C 3018	(A,110,58)		CKSRYB104K16
C 3019	(A,129,62)		CKSRYB104K16
C 3020	(A,135,56)		CKSRYB104K16
C 3025	(A,69,10)		CKSRYB222K50
C 3027	(A,10,26)		CKSRYB222K50
C 3028	(A,7,26)		CKSRYB222K50
C 3029	(A,24,24)		CKSRYB222K50
C 3051	(A,87,86)		CKSYB106K6R3
C 3052	(A,78,84)		CCSRCH470J50
C 3053	(A,76,83)		CCSRCH470J50
C 3054	(A,84,86)		CKSRYB104K16
C 3055	(A,82,89)	68µF/6.3V	CCH1440
C 3061	(A,87,80)		CKSYB106K6R3
C 3062	(A,78,79)		CCSRCH470J50
C 3063	(A,76,77)		CCSRCH470J50
C 3064	(A,84,80)		CKSRYB104K16
C 3071	(A,87,75)		CKSYB106K6R3
C 3072	(A,78,73)		CCSRCH470J50
C 3073	(A,76,71)		CCSRCH470J50
C 3074	(A,84,74)		CKSRYB104K16
C 3101	(A,129,85)	10µF	CCG1138
C 3102	(A,129,81)	10µF	CCG1138
C 3103	(A,66,77)		CKSYB106K6R3
C 3105	(A,58,69)		CKSRYB105K10
C 3107	(A,63,72)	68µF/6.3V	CCH1440
C 3108	(A,64,80)		CKSRYB105K10
C 3130	(A,52,95)		CCSRCH9R0D50
C 3131	(A,46,95)		CCSRCH9R0D50
C 3132	(A,85,96)		CKSRYB105K10
C 3134	(A,72,93)		CKSRYB104K16
C 3135	(A,75,95)	68µF/6.3V	CCH1440
C 3136	(A,34,94)		CKSRYB104K16
C 3140	(A,55,90)		CKSSYF104Z16
C 3141	(A,52,91)		CKSRYB103K50
C 3142	(A,46,91)		CKSSYF104Z16
C 3143	(A,45,90)		CKSSYF104Z16
C 3144	(A,40,90)		CKSSYF104Z16
C 3145	(A,35,90)		CKSRYB105K10
C 3147	(A,51,91)		CCSRCH181J50
C 3149	(A,55,89)		CKSSYF104Z16
C 3151	(A,57,95)		CCSRCH4R0C50
C 3154	(A,57,87)		CKSSYF104Z16

Circuit Symbol and No.			Part No.
C 3155	(A,57,86)		CKSSYF104Z16
C 3158	(A,57,85)		CKSSYF104Z16
C 3160	(A,59,84)		CKSSYF104Z16
C 3161	(A,59,83)		CKSSYF104Z16
C 3163	(A,57,84)		CKSSYF104Z16
C 3164	(A,31,82)		CKSSYF104Z16
C 3165	(A,57,83)		CKSSYF104Z16
C 3166	(A,57,82)		CKSSYF104Z16
C 3167	(A,57,81)		CKSSYF104Z16
C 3168	(A,57,80)		CKSSYF104Z16
C 3169	(A,59,82)		CKSSYF104Z16
C 3170	(A,59,81)		CKSSYF104Z16
C 3171	(A,59,80)		CKSSYF104Z16
C 3172	(A,57,79)		CKSSYF104Z16
C 3173	(A,60,79)		CKSRYB104K16
C 3174	(A,60,77)		CKSRYB104K16
C 3175	(A,60,76)		CKSRYB104K16
C 3176	(A,64,79)		CCSRCH181J50
C 3177	(A,64,77)		CCSRCH181J50
C 3178	(A,64,76)		CCSRCH181J50
C 3179	(A,58,75)		CKSSYF104Z16
C 3180	(A,56,75)		CKSSYF104Z16
C 3181	(A,31,74)		CKSSYF104Z16
C 3182	(A,60,74)		CKSRYB105K10
C 3183	(A,57,73)		CKSRYB392K50
C 3184	(A,56,71)		CKSSYF104Z16
C 3185	(A,56,69)		CKSSYF104Z16
C 3186	(A,55,67)		CKSSYF104Z16
C 3188	(A,56,67)		CKSSYF104Z16
C 3189	(A,51,65)		CKSSYF104Z16
C 3190	(A,54,66)		CKSSYF104Z16
C 3191	(A,50,64)		CKSSYF104Z16
C 3192	(A,47,64)		CKSSYF104Z16
C 3193	(A,47,65)		CKSSYF104Z16
C 3195	(A,49,65)		CKSSYF104Z16
C 3196	(A,40,65)		CKSSYF104Z16
C 3197	(A,37,59)		CCSRCH101J50
C 3198	(A,36,65)		CKSRYB105K10
C 3199	(A,46,61)		CKSRYB104K16
C 3200	(A,70,68)		CKSRYB104K16
C 3201	(A,62,65)		CKSRYB104K16
C 3202	(A,62,61)		CKSRYB104K16
C 3203	(A,79,65)	22µF	CCG1183
C 3204	(A,68,45)	22µF	CCG1183
C 3205	(A,67,40)	4.7µF	CCG1111
C 3206	(A,65,62)		CKSRYB103K50
C 3207	(A,66,45)		CKSRYB104K16
C 3208	(A,65,40)		CKSRYB104K16
C 3209	(A,66,48)		CKSRYB104K16
C 3210	(A,68,53)		CKSQYB225K10
C 3211	(A,60,53)		CKSQYB225K10
C 3212	(A,53,53)		CKSQYB225K10
C 3213	(A,69,51)		CKSRYB103K50
C 3214	(A,65,55)		CKSRYB104K16
C 3215	(A,58,55)		CKSRYB104K16
C 3216	(A,50,55)		CKSRYB104K16
C 3217	(A,72,54)	22µF	CCG1183
C 3218	(A,76,54)	22µF	CCG1183
C 3219	(A,66,65)		CCSRCH4R0C50
C 3220	(A,66,59)		CCSRCH4R0C50

Circuit Symbol and No.	Part No.
C 3221 (A,65,42)	CKSRYB104K16
C 3222 (A,45,55)	CKSRYB104K16
C 3223 (A,41,55)	CKSRYB104K16
C 3224 (A,37,55)	CKSRYB104K16
C 3225 (A,42,47)	CKSRYB104K16
C 3226 (A,39,47)	CKSRYB104K16
C 3227 (A,36,46)	CKSRYB104K16
C 3228 (A,33,55)	CKSRYB104K16
C 3229 (A,44,50) 4.7μF	CCG1111
C 3230 (A,40,50) 22μF	CCG1183
C 3231 (A,36,50)	CKSYB106K6R3
C 3232 (A,71,68)	CCSRCH4R0C50
C 3233 (A,32,50) 4.7μF	CCG1111
C 3234 (A,76,67)	CKSRYB104K16
C 3235 (A,32,46)	CKSRYB104K16
C 3252 (A,96,88)	CCSRCH271J50
C 3255 (A,115,73)	CKSQYB225K10
C 3256 (A,99,75)	CKSRYB104K16
C 3258 (A,99,89)	CKSRYB393K16
C 3259 (A,93,104) 68μF/6.3V	CCH1440
C 3260 (A,97,92)	CCSRCH331J50
C 3261 (A,98,87)	CCSRCH331J50
C 3262 (A,92,101)	CKSRYB104K16
C 3263 (A,101,83)	CKSRYB104K16
C 3264 (A,102,79)	CKSYB475K16
C 3265 (A,103,92)	CKSRYB103K50
C 3266 (A,100,89)	CKSRYB473K50
C 3267 (A,100,86)	CKSRYB103K50
C 3268 (A,103,89)	CCSRCH101J50
C 3269 (A,103,86)	CCSRCH100D50
C 3270 (A,101,84)	CKSRYB393K16
C 3271 (A,106,94)	CKSRYB104K16
C 3272 (A,103,105) 10μF	CCG1138
C 3273 (A,99,105) 10μF	CCG1138
C 3274 (A,108,94)	CKSRYB105K10
C 3275 (A,118,105) 10μF	CCG1138
C 3276 (A,109,94)	CCSRCH102J50
C 3278 (A,112,94)	CKSRYB104K16
C 3279 (A,111,81)	CCSRCH102J50
C 3280 (A,108,80)	CKSRYB105K10
C 3281 (A,115,95)	CKSRYB105K10
C 3282 (A,115,94)	CKSRYB103K50
C 3283 (A,110,106)	CKSRYB104K16
C 3284 (A,122,87)	CKSYB475K16
C 3285 (A,107,107) 22μF	CCG1183
C 3286 (A,116,108)	CKSRYB104K16
C 3287 (A,118,96)	CKSRYB472K50
C 3288 (A,118,95)	CKSRYB472K50
C 3289 (A,121,78)	CKSRYB474K10
C 3290 (A,118,78)	CKSRYB474K10
C 3291 (A,114,78)	CKSRYB474K10
C 3292 (A,120,91)	CKSRYB104K16
C 3293 (A,121,92)	CKSQYF105Z25
C 3294 (A,119,73)	CKSQYB105K16
C 3295 (A,117,73)	CKSQYB105K16
C 3296 (A,113,73)	CKSQYB225K10
C 3297 (A,121,101)	CKSQYB105K16
C 3298 (A,121,99)	CKSQYB105K16
C 3299 (A,109,74)	CKSQYB105K16
C 3300 (A,123,94)	CKSQYF105Z25
C 3301 (A,146,93) 10μF	CCG1138
C 3302 (A,174,92) 10μF	CCG1138
C 3303 (A,150,91) 10μF	CCG1138
C 3304 (A,150,88) 10μF	CCG1138
C 3305 (A,154,86)	CKSRYB104K16
C 3306 (A,156,85)	CKSRYB104K16
C 3307 (A,154,83)	CKSRYB105K10
C 3308 (A,156,87)	CKSRYB105K10
C 3309 (A,157,83)	CKSQYB105K16
C 3310 (A,155,89)	CKSRYB104K16
C 3311 (A,157,79)	CKSRYB104K16
C 3312 (A,158,81)	CKSRYB105K10
C 3314 (A,159,75)	CFHXSQ822J16
C 3315 (A,161,75)	CKSRYB152K50
C 3316 (A,167,74)	CKSRYB103K50
C 3317 (A,167,82)	CCSRCH221J50
C 3318 (A,168,85)	CKSRYB473K50
C 3319 (A,168,79)	CKSRYB473K50
C 3320 (B,182,84) 10μF	CCG1138
C 3321 (B,182,88) 10μF	CCG1138
C 3322 (B,173,79)	CKSQYB104K50
C 3323 (B,179,79)	CKSQYB104K50
C 3324 (B,183,73)	CKSQYB105K16
C 3325 (B,185,74)	CKSQYB105K16
C 3326 (B,177,34) 22pF	CCG1140
C 3327 (B,173,34)	CKSRYB223K50
C 3328 (A,165,58)	CKSQYB104K50
C 3335 (A,160,57)	CKSRYB104K16
C 3336 (A,156,64)	CKSRYB104K16
C 3401 (A,28,98)	CKSSYF104Z16
C 3402 (B,160,98)	CKSSYF104Z16
C 3403 (A,182,38)	CKSSYF104Z16
C 3404 (A,182,52)	CKSSYF104Z16
C 3405 (B,177,20)	CKSSYF104Z16
C 3406 (B,177,16)	CKSSYF104Z16
C 3407 (A,126,110)	CKSSYF104Z16
C 3408 (A,147,110)	CKSSYF104Z16
C 3409 (A,84,110)	CKSSYF104Z16
C 3410 (A,105,110)	CKSSYF104Z16
C 3411 (A,42,110)	CKSSYF104Z16
C 3412 (A,63,110)	CKSSYF104Z16
C 3413 (A,182,78)	CKSSYF104Z16
C 3414 (A,182,65)	CKSSYF104Z16
C 3415 (A,172,96)	CKSSYF104Z16
C 3416 (A,172,110)	CKSSYF104Z16
C 3417 (A,13,94)	CKSSYF104Z16
C 3418 (A,7,104)	CKSSYF104Z16
C 3419 (A,23,111)	CKSSYF104Z16
C 3420 (A,26,102)	CKSSYF104Z16
C 3421 (A,11,78)	CKSSYF104Z16
C 3422 (A,11,65)	CKSSYF104Z16
C 3423 (A,11,52)	CKSSYF104Z16
C 3424 (A,11,38)	CKSSYF104Z16
C 3425 (B,12,20)	CKSSYF104Z16
C 3426 (B,12,16)	CKSSYF104Z16

G

Unit Number:CWX3178

Unit Name:DVD Core Unit (MS3R)

MISCELLANEOUS

Circuit Symbol and No.		Part No.
IC 401	(A,16,29) IC	PE5430A
IC 402	(A,4,39) IC	S-80827CNNB-B8M
IC 404	(A,4,36) IC	TC7S08F
IC 601	(B,11,18) IC	BA033FP
IC 602	(B,10,71) IC	BA18BC0FP
IC 1101	(A,15,82) IC	AN8703FH
IC 1201	(A,46,39) IC	BA5985FM
IC 1202	(A,45,56) IC	BA6859AFP-Y
IC 1301	(A,16,56) IC	MNZS26EDCUB
Q 1101	(B,36,104) Transistor	2SB1260
Q 1102	(B,36,98) Transistor	2SB1260
Q 1103	(B,25,105) Transistor	UN2211
Q 1104	(A,24,105) Transistor	2SB709A
Q 1105	(A,27,105) Transistor	2SD601A
D 1101	(B,33,104) Diode	1SS355
D 1102	(B,33,96) Diode	1SS355
D 1301	(B,25,55) Diode	UDZ2R7(B)
D 1302	(B,9,81) Chip LED	CL205IRXTU
L 401	(A,9,17) Inductor	CTF1395
L 402	(A,4,33) Inductor	CTF1410
L 1301	(B,15,55) Inductor	CTF1409
L 1302	(B,8,40) Inductor	CTF1409
L 1303	(B,15,58) Inductor	CTF1395
L 1305	(B,6,70) Inductor	CTF1409
X 401	(A,4,29) Ceramic Resonator 16.000MHz	CSS1576
X 1301	(A,33,64) Ceramic Resonator 16.934MHz	CSS1603

RESISTORS

Circuit Symbol and No.		Part No.
R 401	(A,28,23)	RS1/16SS104J
R 403	(A,41,26)	RS1/16SS473J
R 404	(B,6,36)	RS1/16SS473J
R 405	(B,6,38)	RS1/16SS105J
R 406	(B,11,31)	RS1/16SS103J
R 407	(A,2,20)	RS1/16SS104J
R 410	(A,26,39)	RS1/16SS473J
R 414	(A,27,27)	RS1/16SS473J
R 415	(A,19,15)	RS1/16S1002D
R 418	(A,32,23)	RS1/16SS473J
R 419	(A,28,24)	RS1/16SS221J
R 420	(A,29,27)	RS1/16SS103J
R 421	(A,29,28)	RS1/16SS103J
R 423	(A,29,30)	RS1/16SS103J
R 424	(A,26,32)	RS1/16SS221J
R 427	(A,29,25)	RS1/16SS103J
R 433	(B,7,63)	RS1/16SS473J
R 434	(A,27,22)	RS1/16SS223J
R 435	(A,26,23)	RS1/16SS222J
R 436	(A,33,30)	RS1/16SS101J
R 437	(A,33,31)	RS1/16SS101J
R 601	(B,7,64)	RS1/16SS102J
R 603	(A,4,19)	RS1/16SS820J
R 604	(A,8,10)	RS1/16SS820J
R 605	(A,9,10)	RS1/16SS820J
R 606	(A,10,10)	RS1/16SS220J
R 607	(A,11,10)	RS1/16SS103J
R 608	(A,19,11)	RS1/16SS101J
R 612	(B,9,10)	RAB4CQ820J

Circuit Symbol and No.		Part No.
R 615	(B,11,10)	RAB4CQ220J
R 616	(B,19,11)	RAB4CQ220J
R 617	(B,21,14)	RAB4CQ220J
R 618	(B,24,11)	RAB4CQ220J
R 620	(A,14,11)	RS1/16SS103J
R 625	(A,5,19)	RS1/16SS220J
R 626	(A,4,22)	RS1/16SS820J
R 627	(A,7,19)	RS1/16SS220J
R 629	(B,7,13)	RS1/16SS103J
R 1101	(A,24,97)	RS1/16SS101J
R 1102	(B,40,101)	RS1/16SS3R9J
R 1103	(B,42,101)	RS1/16SS3R9J
R 1104	(B,42,102)	RS1/16SS3R9J
R 1105	(B,40,102)	RS1/16SS3R9J
R 1106	(A,21,97)	RS1/16SS330J
R 1107	(B,40,97)	RS1/16SS3R9J
R 1108	(B,40,98)	RS1/16SS3R9J
R 1109	(B,40,99)	RS1/16SS3R9J
R 1110	(B,40,100)	RS1/16SS3R9J
R 1111	(B,17,104)	RS1/16SS272J
R 1112	(B,18,104)	RS1/16SS472J
R 1113	(B,23,103)	RS1/16SS102J
R 1124	(A,5,85)	RS1/16SS273J
R 1125	(A,5,84)	RS1/16SS273J
R 1126	(A,6,81)	RS1/16SS224J
R 1133	(A,6,79)	RS1/16S2402D
R 1134	(A,6,77)	RS1/16S1002D
R 1135	(A,2,77)	RS1/16S2702D
R 1140	(A,23,83)	RS1/16SS105J
R 1141	(A,25,85)	RS1/16SS105J
R 1142	(B,17,80)	RS1/16SS105J
R 1151	(B,17,93)	RS1/16SS103J
R 1152	(B,13,90)	RS1/16SS103J
R 1201	(A,41,49)	RS1/16SS221J
R 1202	(A,38,45)	RS1/16SS393J
R 1203	(A,39,45)	RS1/16SS303J
R 1205	(B,44,43)	RS1/16SS0R0J
R 1206	(B,46,44)	RS1/16SS102J
R 1209	(B,46,38)	RS1/16SS221J
R 1210	(B,50,42)	RS1/16SS393J
R 1211	(B,51,44)	RS1/16SS393J
R 1212	(B,50,45)	RS1/16SS393J
R 1213	(A,53,47)	RS1/16SS393J
R 1214	(B,44,47)	RS1/16SS221J
R 1219	(A,51,50)	RS1/16SS221J
R 1220	(B,46,39)	RS1/16SS221J
R 1221	(A,51,60)	RS1/16S1802D
R 1222	(A,27,79)	RS1/16SS221J
R 1223	(A,47,64)	RS1/16SS2R2J
R 1224	(A,48,64)	RS1/16SS2R2J
R 1228	(A,49,64)	RS1/16SS2R2J
R 1231	(B,15,7)	RS1/16SS822J
R 1232	(B,14,7)	RS1/16SS822J
R 1233	(B,13,8)	RS1/16SS822J
R 1234	(B,15,10)	RS1/16SS563J
R 1235	(B,14,10)	RS1/16SS243J
R 1236	(B,13,10)	RS1/16SS683J
R 1238	(A,50,64)	RS1/16SS2R2J
R 1239	(A,51,64)	RS1/16SS2R2J
R 1241	(A,15,11)	RS1/16SS822J

Circuit Symbol and No.		Part No.
R 1242	(B,17,8)	RS1/16SS243J
R 1243	(B,12,84)	RS1/16S391J
R 1244	(B,9,84)	RS1/16S471J
R 1245	(B,19,97)	RS1/16SS105J
R 1301	(B,18,55)	RS1/16SS222J
R 1323	(B,21,47)	RS1/16SS221J
R 1324	(B,22,47)	RS1/16SS221J
R 1334	(A,34,45)	RS1/16SS221J
R 1338	(B,26,57)	RS1/16SS472J
R 1339	(A,32,56)	RS1/16SS273J
R 1340	(B,26,58)	RS1/16SS472J
R 1341	(A,32,57)	RS1/16SS273J
R 1342	(A,34,57)	RS1/16SS273J
R 1344	(A,32,58)	RS1/16SS273J
R 1349	(B,27,64)	RS1/16SS562J
R 1350	(B,27,63)	RS1/16SS242J
R 1352	(B,24,64)	RS1/16S2702D
R 1353	(A,28,72)	RS1/16SS102J
R 1360	(B,21,65)	RS1/16SS153J
R 1361	(B,18,65)	RS1/16SS105J
R 1362	(A,7,75)	RS1/16SS473J
R 1363	(A,3,75)	RS1/16SS101J
R 1364	(A,7,74)	RS1/16SS123J
R 1365	(A,4,74)	RS1/16SS101J
R 1367	(B,13,79)	RS1/16SS473J
R 1369	(B,15,76)	RS1/16SS473J
R 1377	(A,2,68)	RS1/16SS103J
R 1378	(A,1,68)	RS1/16SS103J
R 1379	(A,1,44)	RS1/16SS0R0J
R 1380	(A,31,65)	RS1/16SS681J
R 1381	(A,31,63)	RS1/16SS105J
R 1383	(B,24,52)	RS1/16SS0R0J
R 1384	(A,3,68)	RS1/16SS103J
R 1385	(A,-2,63)	RS1/16SS103J
R 1386	(A,-1,63)	RS1/16SS103J

CAPACITORS

Circuit Symbol and No.		Part No.
C 401	(A,20,39)	CKSRYB474K10
C 402	(B,6,39)	CKSSYB104K10
C 403	(B,6,41)	CKSSYB103K16
C 404	(A,4,32)	CKSRYB105K10
C 405	(A,11,17)	CKSRYB474K10
C 406	(A,19,19)	CKSRYB474K10
C 407	(A,16,14)	CKSSYB103K16
C 408	(A,19,16)	CKSRYB474K10
C 410	(B,6,37)	CKSSYB103K16
C 411	(B,6,35)	CKSSYB104K10
C 601	(B,8,27) 10µF/10V	CCH1349
C 602	(B,12,27) 10µF/10V	CCH1349
C 603	(B,14,27)	CKSSYB102K50
C 604	(B,6,27)	CKSRYB474K10
C 605	(B,11,63)	CSZSR470M6R3
C 606	(B,7,65)	CKSSYB102K50
C 607	(B,5,78)	CKSRYB474K10
C 611	(A,15,13)	CCSSCH181J25
C 1101	(B,14,101)	CSZSC470M16
C 1102	(A,25,100)	CSZSR470M6R3
C 1103	(B,30,105)	CKSSYB104K10
C 1104	(B,33,102)	CKSSYB103K16
C 1105	(A,22,100)	CSZSR101M6R3
C 1106	(B,32,100)	CKSSYB104K10
C 1107	(B,31,95)	CKSSYB103K16
C 1108	(B,23,105)	CKSSYB104K10
C 1109	(A,21,105)	CKSRYB473K25
C 1110	(A,30,106)	CKSRYB473K25
C 1111	(A,32,103)	CKSSYB103K16
C 1112	(A,22,94)	CKSRYB105K10
C 1113	(A,24,94)	CKSRYB105K10
C 1114	(A,31,102)	CKSSYB103K16
C 1121	(A,6,83)	CKSSYB221K50
C 1122	(A,2,79)	CKSRYB393K16
C 1124	(A,13,74)	CKSSYB221K50
C 1125	(B,16,76)	CKSSYB104K10
C 1126	(A,15,75)	CKSSYB104K10
C 1127	(B,17,76)	CKSSYB104K10
C 1128	(B,15,80)	CKSRYB472K50
C 1129	(A,22,79)	CKSSYB104K10
C 1132	(A,25,83)	CKSRYB561K50
C 1133	(A,24,86)	CKSRYB561K50
C 1134	(A,23,86)	CKSRYB273K16
C 1135	(B,20,81)	CKSSYB473K10
C 1136	(A,22,90)	CKSSYB104K10
C 1137	(A,22,89)	CKSSYB104K10
C 1138	(A,14,89)	CKSSYB104K10
C 1139	(A,16,90)	CKSSYB104K10
C 1201	(A,39,47)	CKSSYB104K10
C 1204	(B,1,72)	CEVW101M16
C 1205	(A,39,36)	CKSRYB104K16
C 1206	(B,45,35)	CKSRYB103K50
C 1207	(B,45,34)	CKSRYB103K50
C 1208	(B,51,42)	CCSSCH5R0C50
C 1209	(B,51,45)	CCSSCH470J50
C 1210	(A,51,52)	CKSSYB104K10
C 1301	(A,6,42)	CKSSYB104K10
C 1302	(A,13,41)	CKSSYB104K10
C 1303	(A,15,41)	CKSRYB224K10
C 1304	(A,20,42)	CKSSYB104K10
C 1305	(A,23,41)	CKSRYB224K10
C 1306	(A,32,45)	CKSSYB471K50
C 1307	(A,33,52)	CKSSYB104K10
C 1308	(A,31,52)	CKSRYB224K10
C 1309	(A,35,54)	CKSSYB104K10
C 1310	(A,35,55)	CKSSYB104K10
C 1311	(A,35,57)	CKSSYB103K16
C 1312	(A,37,58)	CKSSYB103K16
C 1313	(A,30,61)	CKSSYB104K10
C 1314	(A,34,61)	CKSRYB224K10
C 1315	(B,27,65)	CKSRYB102K50
C 1316	(B,24,65)	CKSRYB393K16
C 1317	(A,30,68)	CKSSYB104K10
C 1318	(A,30,71)	CKSSYB103K16
C 1319	(A,27,77)	CKSSYB104K10
C 1320	(A,24,78)	CKSSYB103K16
C 1329	(A,22,72)	CKSSYB104K10
C 1330	(B,24,67)	CKSRYB183K50
C 1331	(B,21,66)	CCSSCH470J50
C 1332	(A,20,72)	CKSRYB224K10
C 1333	(A,19,72)	CKSRYB105K10
C 1334	(B,15,67)	CKSRYB102K50

Circuit Symbol and No.		Part No.
C 1335	(B,18,63)	CKSSYB562K25
C 1336	(A,18,72)	CKSSYB104K10
C 1337	(A,16,72)	CKSRYB102K50
C 1338	(B,16,69)	CKSRYB102K50
C 1339	(A,15,72)	CKSRYB102K50
C 1340	(A,13,71)	CKSSYB104K10
C 1341	(B,16,66)	CCSSCH101J50
C 1342	(B,16,65)	CKSRYB391K50
C 1343	(B,16,63)	CKSRYB471K50
C 1344	(B,16,62)	CKSRYB331K50
C 1346	(A,8,71)	CKSRYB224K10
C 1347	(A,1,61)	CKSSYB104K10
C 1348	(A,1,57)	CKSSYB104K10
C 1349	(A,2,56)	CKSSYB104K10
C 1350	(A,2,52)	CKSSYB104K10
C 1351	(A,1,48)	CKSSYB104K10
C 1352	(A,1,46)	CKSSYB104K10
C 1355	(B,2,59)	CSZS100M6R3

H

Unit Number:CWX3154
Unit Name:Compound Unit(A)

Q 1299	Photo-taransistor	CPT231SCTD
S 1201	Spring Switch(12cm)	CSN1069
S 1202	Spring Switch(8cm)	CSN1069
S 1203	Spring Switch(DISC SENS)	CSN1069
S 1204	Spring Switch(DISC SENS)	CSN1070
S 1205	Spring Switch(8cm)	CSN1070
R 1298		RS1/16S0R0J
R 1299		RS1/16S0R0J

I

Unit Number:CWX3156
Unit Name:Compound Unit(B)

S 1206	Switch(CLAMP)	CSN1051

J

Unit Number:CWX2950
Unit Name:Control Unit(G3)

MISCELLANEOUS

Circuit Symbol and No.			Part No.
IC 201	(A,44,26)	IC	UPD63761AGJ
IC 202	(B,62,32)	IC	MSM56V16160F8TKFM
IC 203	(A,63,11)	IC	NJM2391DL1-33
IC 204	(A,53,12)	IC	S-L2980A15MC-C6A
IC 301	(A,67,22)	IC	BA6859AFP-Y
IC 302	(A,65,38)	IC	BD7962FM
IC 701	(B,16,23)	IC	PE5514A
IC 702	(A,5,24)	IC	BR93L56RFVM-W
IC 703	(A,20,26)	IC	S-812C33AMC-C2N
Q 101	(A,41,44)	Transistor	2SB1132
Q 601	(B,32,11)	Transistor	IMH20
Q 602	(B,40,11)	Transistor	2SB709A
Q 701	(A,15,24)	Transistor	UMF21N
D 201	(B,72,11)	Diode	1SR154-400
D 202	(B,72,14)	Diode	1SR154-400
D 601	(B,37,11)	Diode	M1MA152WAT1G
L 102	(A,31,45)	Inductor	CTF1389
L 206	(A,40,12)	Inductor	CTF1645
X 201	(A,42,9)	Ceramic Resonator 16.934MHz	CSS1603
X 701	(B,16,11)	Ceramic Resonator 4.000MHz	CSS1652

RESISTORS

Circuit Symbol and No.		Part No.
R 101	(A,15,37)	RS1/10SR471J
R 102	(A,16,37)	RS1/10SR331J
R 103	(A,49,45)	RS1/10SR2R7J
R 104	(A,47,45)	RS1/10SR2R4J
R 105	(A,46,45)	RS1/10SR2R4J
R 108	(B,34,30)	RS1/16SS272J
R 201	(B,44,35)	RS1/16SS393J
R 202	(B,44,36)	RS1/16SS103J
R 203	(A,38,39)	RS1/16SS222J
R 204	(A,34,39)	RS1/16SS562J
R 205	(A,35,36)	RS1/16SS472J
R 207	(A,36,37)	RS1/16SS101J
R 208	(B,51,20)	RS1/16SS333J
R 209	(B,46,39)	RS1/16SS472J
R 212	(B,47,39)	RS1/16SS472J
R 214	(A,50,40)	RS1/16SS103J
R 215	(A,28,23)	RS1/16SS102J
R 216	(A,48,41)	RS1/16SS472J
R 218	(A,50,39)	RS1/16SS103J
R 219	(A,49,39)	RS1/16SS472J
R 221	(B,33,21)	RS1/16SS333J
R 222	(B,36,18)	RS1/16SS221J
R 223	(A,49,12)	RS1/16SS333J
R 224	(A,47,11)	RS1/16SS333J
R 227	(B,51,22)	RS1/16SS121J
R 229	(A,41,41)	RS1/16SS0R0J
R 237	(A,37,14)	RS1/16SS0R0J
R 238	(B,43,14)	RS1/16SS0R0J
R 301	(B,47,21)	RS1/16SS221J
R 302	(A,71,46)	RS1/16SS473J
R 303	(B,68,46)	RS1/16SS473J
R 304	(A,72,44)	RS1/16SS333J
R 305	(B,68,43)	RS1/16SS822J
R 306	(B,67,43)	RS1/16SS822J
R 307	(B,67,41)	RS1/16SS333J
R 308	(A,70,16)	RS1/16SS102J
R 309	(B,45,23)	RS1/16SS102J
R 310	(A,61,16)	RS1/16SS221J
R 311	(B,65,44)	RS1/16SS822J
R 312	(B,63,42)	RS1/16SS822J
R 313	(B,65,43)	RS1/16SS273J
R 314	(B,61,42)	RS1/16SS183J
R 315	(B,70,42)	RAB4CQ103J
R 316	(A,73,16)	RS1/10SR1R0J
R 317	(A,73,14)	RS1/10SR2R2J
R 319	(A,71,30)	RS1/16SS393J
R 320	(A,63,30)	RS1/16SS333J
R 321	(A,69,30)	RS1/16SS273J
R 322	(A,65,30)	RS1/16SS183J
R 323	(A,73,45)	RS1/16SS822J
R 601	(A,33,9)	RS1/16SS101J
R 602	(A,32,13)	RS1/16SS101J
R 603	(B,35,9)	RS1/16SS223J

Circuit Symbol and No.		Part No.
R 604	(A,32,15)	RS1/16SS223J
R 605	(B,33,14)	RS1/16SS103J
R 606	(B,33,13)	RS1/16SS0R0J
R 701	(A,23,20)	RS1/16SS103J
R 702	(A,24,22)	RS1/16SS103J
R 703	(A,21,23)	RS1/16SS184J
R 704	(A,21,20)	RS1/16SS223J
R 705	(B,32,23)	RAB4CQ221J
R 706	(B,28,20)	RS1/16SS221J
R 707	(A,14,15)	RS1/16SS473J
R 708	(A,26,17)	RS1/16SS103J
R 709	(A,12,26)	RS1/16SS103J
R 710	(B,26,17)	RS1/16SS473J
R 711	(B,27,17)	RS1/16SS123J
R 712	(B,29,22)	RAB4CQ221J
R 713	(B,28,31)	RAB4CQ221J
R 714	(A,12,25)	RS1/16SS272J
R 715	(A,19,15)	RS1/16SS473J
R 716	(B,20,34)	RS1/16SS221J
R 717	(B,19,33)	RS1/16SS221J
R 718	(B,18,33)	RS1/16SS221J
R 719	(B,17,36)	RS1/16SS473J
R 720	(B,16,33)	RS1/16SS102J
R 721	(A,15,15)	RS1/16SS102J
R 723	(B,13,9)	RS1/16SS473J
R 724	(B,15,33)	RS1/16SS471J
R 725	(B,12,9)	RS1/16SS473J
R 726	(A,12,18)	RS1/16SS472J
R 730	(A,11,15)	RS1/16SS101J
R 731	(B,9,33)	RS1/16SS473J
R 735	(A,9,25)	RS1/16SS472J
R 736	(A,9,24)	RS1/16SS473J
R 740	(A,7,14)	RS1/16SS104J
R 742	(A,12,22)	RS1/16SS103J
R 743	(A,21,30)	RS1/16SS103J
R 744	(A,20,31)	RS1/16SS103J
R 745	(B,12,7)	RS1/16SS104J
R 747	(A,11,28)	RS1/16SS104J
R 749	(A,13,30)	RS1/16SS104J
R 902	(B,18,6)	RS1/16SS221J
R 903	(A,9,13)	RS1/16SS102J
R 904	(B,15,6)	RS1/16SS101J
R 906	(B,20,4)	RS1/16SS221J
R 909	(A,20,22)	RS1/16SS473J
R 912	(A,8,18)	RS1/16SS0R0J
R 914	(B,25,4)	RS1/16SS0R0J

CAPACITORS

Circuit Symbol and No.		Part No.
C 102	(B,25,37)	CKSSYB104K10
C 103	(A,37,46)	CKSSYB104K10
C 104	(A,35,43)	CSZS150M6R3
C 201	(B,44,33)	CKSSYB182K50
C 202	(B,43,33)	CKSSYB473K10
C 203	(A,38,38)	CKSSYB104K10
C 204	(B,32,29)	CKSSYB102K50
C 205	(A,33,39)	CCSSCH5R0C50
C 206	(A,40,39)	CKSSYB152K50
C 207	(A,35,39)	CCSSCH330J50
C 208	(A,33,34) 0.47μF	CCG1213
C 209	(B,35,28)	CKSSYB103K16
C 210	(A,27,31)	CCSSCH470J50
C 211	(A,29,29)	CKSSYB682K25
C 212	(A,43,41)	CKSSYB104K10
C 213	(A,38,37)	CKSSYB104K10
C 214	(A,29,31)	CCSSCH680J50
C 216	(A,50,41)	CKSSYB152K50
C 217	(A,29,24)	CKSSYB104K10
C 218	(A,29,22)	CKSSYB102K50
C 219	(A,51,39)	CKSSYB102K50
C 220	(A,51,37)	CKSSYB104K10
C 221	(B,51,24)	CKSSYB104K10
C 222	(A,36,16)	CKSSYB104K10
C 223	(B,62,24)	CKSSYB104K10
C 225	(A,36,15)	CKSSYB104K10
C 226	(A,36,11)	CKSRYB105K6R3
C 227	(B,36,13)	CKSSYB103K16
C 228	(B,67,24)	CKSSYB104K10
C 230	(B,42,15)	CKSSYB104K10
C 231	(A,40,11)	CKSSYB104K10
C 232	(B,69,24)	CKSSYB104K10
C 233	(A,54,15)	CKSSYB104K10
C 234	(A,53,9)	CKSRYB105K6R3
C 235	(B,58,20)	CEVW221M4
C 236	(A,72,9) 10μF/6.3V	CCH1470
C 237	(B,57,9)	CKSSYB104K10
C 238	(A,71,6)	CKSRYB474K10
C 242	(B,65,40)	CKSSYB104K10
C 243	(B,47,41)	CKSSYB104K10
C 301	(B,61,43)	CKSSYB221K50
C 302	(B,65,42)	CCSSCH151J50
C 303	(A,63,16)	CKSSYB104K10
C 304	(A,60,31)	CKSQYB475K10
C 305	(B,67,20)	CEVW101M10
C 306	(A,71,31)	CKSSYB472K25
C 307	(A,63,31)	CKSSYB103K16
C 601	(A,36,9)	CKSQYB475K6R3
C 602	(A,35,13)	CKSQYB475K6R3
C 603	(A,33,10)	CCSRCH102J50
C 604	(A,33,15)	CCSRCH102J50
C 701	(A,14,22)	CKSRYB104K25
C 703	(B,41,20)	CKSSYB103K16
C 704	(B,38,20)	CKSSYB103K16
C 705	(B,41,19)	CKSSYB103K16
C 706	(B,38,19)	CKSSYB103K16
C 709	(A,23,15)	CKSRYB105K6R3
C 711	(B,20,33)	CKSSYB104K10
C 712	(A,20,15)	CKSSYB103K16
C 713	(A,17,19)	CKSQYB475K6R3
C 714	(A,14,18)	CKSSYB222K50
C 715	(A,8,20)	CKSSYB104K10
C 717	(A,16,27)	CKSRYB105K6R3
C 718	(A,23,25)	CKSSYB103K16
C 719	(A,22,18)	CKSSYB103K16
C 901	(A,15,33)	CKSSYB104K10
C 902	(A,27,17)	CKSSYB104K10
C 903	(B,29,10)	CKSSYB104K10
C 904	(B,73,8)	CKSSYB104K10
C 905	(B,60,42)	CKSSYB104K10
C 906	(B,8,5)	CKSSYB104K10

Circuit Symbol and No. **Part No.**

K
Unit Number:CWX2986
Unit Name:PCB Assy

MISCELLANEOUS

VR11	(A,8,10)	Semi-fixed 1kΩ(B)	CCP1442
VR12	(A,9,23)	Semi-fixed 1kΩ(B)	CCP1442
R 11	(A,8,15)		RS1/16S562J
R 12	(A,10,15)		RS1/16S472J
R 13	(A,8,18)		RS1/16S562J
R 14	(A,9,6)		RS1/16S562J

Load PCB Unit
Consists of
Load PCB
LPS PCB

L M
Unit Number:CWX2985
Unit Name:Load PCB Unit

MISCELLANEOUS

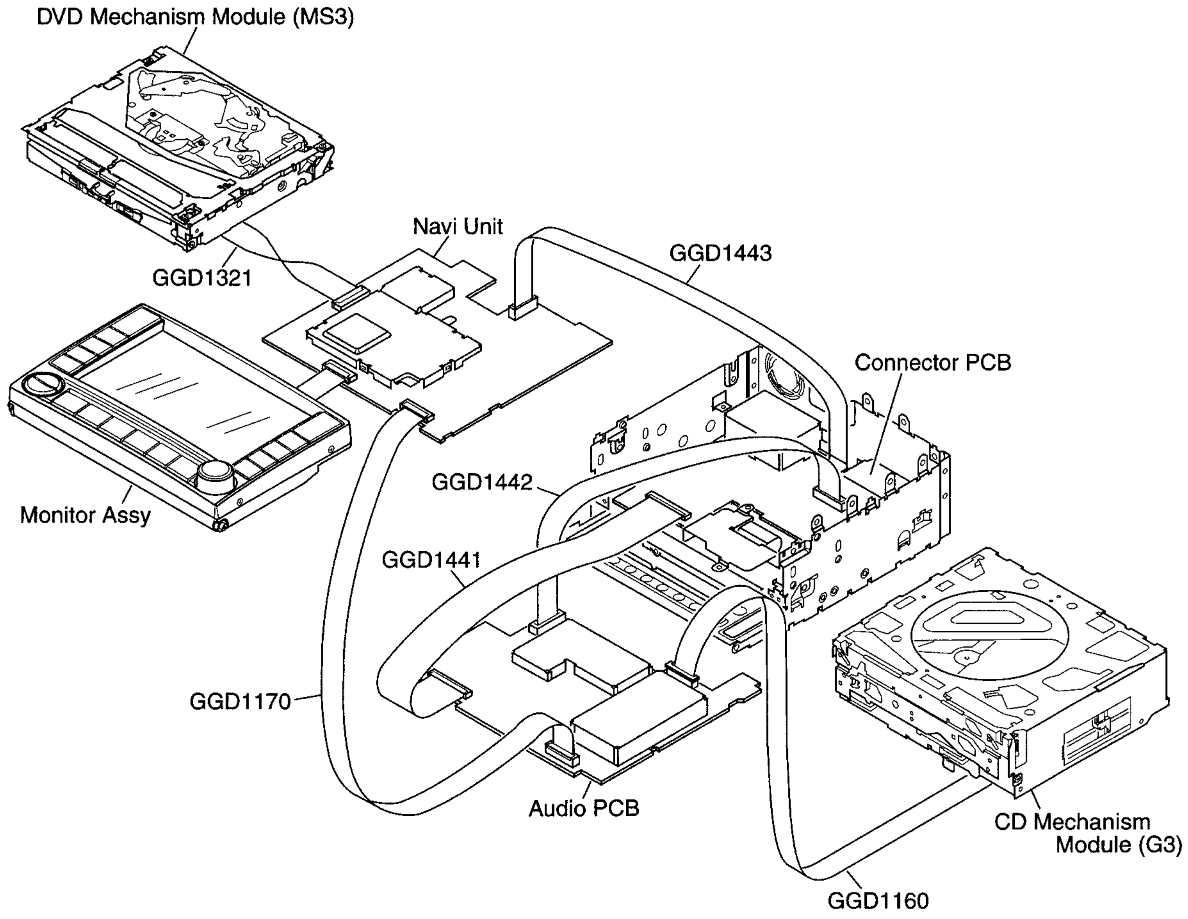
Q 21	(A,35,15)	Photo-transistor	CPT231SCTU
D 21	(A,29,15)	Chip LED	CL205IRXTU
L 21	(A,42,14)	Inductor	LCYBR15J1608
L 22	(A,19,14)	Inductor	LCYBR15J1608
TH21	(A,17,14)	Thermistor	CCX1063
S 21	(A,7,6)	Switch(SWL)	CSN1067
S 22	(A,66,8)	Switch(SWR)	CSN1068

Miscellaneous Parts List

	Pickup Unit(Service)	CXX1815
M 1	Motor Unit(LOADING)	CXC4659
M 2	Motor Unit(CARRIAGE)	CXC4314
M 3	Motor(SPINDLE)	CXM1308
M 1	Fan Motor	CXM1295
M 2	Motor Unit	CXC3854
M 1	Cam Motor Assy(CAM)	CXC3143
M 2	ELV Motor Assy(ELV)	CXC3144
M 3	Motor Unit(CRG)	CXC2801
VR2	Variable Resistor	CCW1023
VR13	Variable Resistor	CCW1029

6. ADJUSTMENT

6.1 JIG CONNECTION DIAGRAM


DVD Mechanism Module (MS3)
Navi Unit
GGD1443
GGD1321
Connector PCB
Monitor Assy
GGD1442
GGD1441
GGD1170
Audio PCB
CD Mechanism
Module (G3)
GGD1160

● Jigs List

Name	Jig No.	Remarks
Flexible extension	GGD1321	45-Pin flexible extension
Flexible extension	GGD1441	60-Pin flexible extension
Flexible extension	GGD1170	40-Pin flexible extension
Flexible extension	GGD1160	18-Pin flexible extension
Flexible extension	GGD1442	30-Pin extension cable
Flexible extension	GGD1443	14-Pin extension cable

6.2 DVD ADJUSTMENT

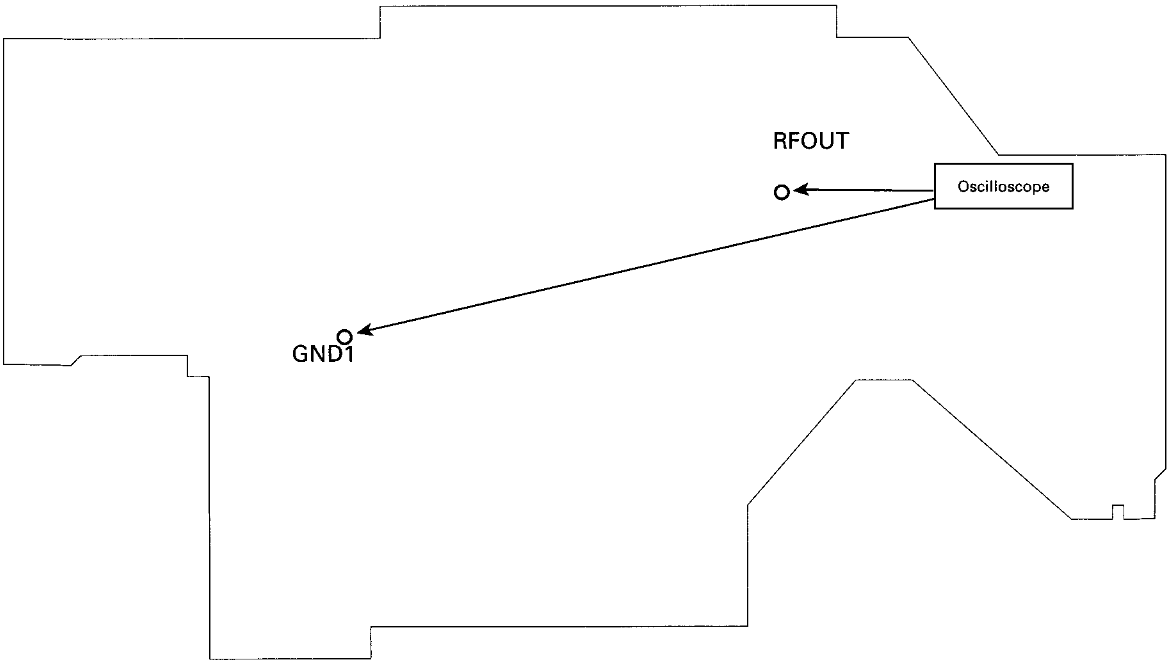
●Skew adjustment

The skew adjustment is to adjust the pickup and the flatness of the disc so that the beam from the pickup continues to go to the disc vertically. In MS3 mecha, the pickup shaft on the inner track near the carriage motor is fixed, so the fixed position is regarded as the standard and the flatness is adjusted. Observing the RF waveform on the oscilloscope, repeat the adjustment on the inner track position and the outer track position, and narrow the adjusted value.

If any of the following replacements have been performed on the system, adjustments for pick up, must be conducted:

1. Pick up unit replacement
2. Spindle motor replacement
3. Carriage chassis replacement
4. Pick up unit main shaft replacement
5. Pick up unit sub-shaft replacement

Measurement device and tools : Oscilloscope
Allen key wrench
45-pin flexible extension (GGD1321)
Screw lock(GYL1001)
Disk used : GGV1018
Measurement reference : GND1
Measurement point : RFOUT
Connection diagram
DVD core unit



Symptoms in case of poor adjustment: Error efficiency deteriorated: 10^{-3} (Optimum value: 10^{-4} or lower)
High jitter of the RF signal RF waveform deformed
Unstable operation in tracking closing and servo control

Caution: Avoid exposing your eyes to laser beams for a long time.

Preparation for adjustment: Clean both ends of the shafts.
Use brand new skew screws supplied with the service kit GXX1254.

Procedures:

1. Place the DVD mechanism module upside down.
   To avoid the disc from being robbed when it is turned upside down, first put a coin of about 1.5 mm on the table, then turn the disc upside down and set it so that the ① in the figure comes to the point immediately above the coin.
2. After replacing the pickup (by referring to the procedures of "Removing the Pickup."), roughly adjust the three skew screws through visual check so that the pickup is mounted in parallel to the CRG chassis around the inner and outer tacks.
3. Connect an oscilloscope as shown in the connecting diagram.
4. Turn on the power of the product. Load the test disc (GGV1018).
5. In the front-end test mode, set the disc type to DVD layer 1. Then, turn on the power. Move the pickup toward the inner tracks.
6. Turn on the laser diodes.
7. With the focus servo closed, complete all automatic adjustments. Close the tracking servo, and then complete all automatic adjustments.

8 Follow the next procedures, from 8-1 to 8-5, and adjust the (three) skew screws.

8-1 Move the pickup toward the inner track and turn the skew adjustment screw C so that the RF level of oscilloscope becomes the maximum.
(Tangential adjustment at the inner track position: Adjust the flatness of the disc at the inner track position with the adjustment screw C)

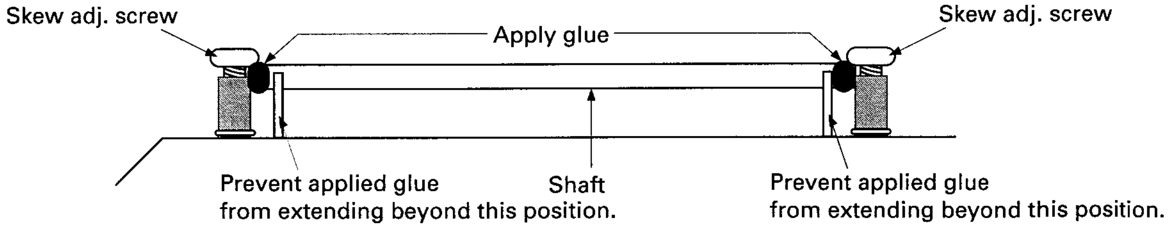
8-2 Move the pickup toward the outer track and turn the skew adjustment screw B so that the RF level becomes the maximum.
(Tangential adjustment at the outer track position: Adjust the flatness of the disc at the outer track position with the adjustment screw B)

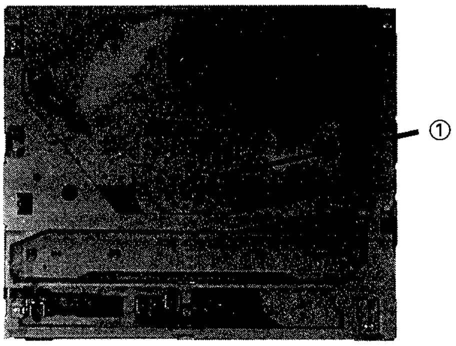
8-3 Leave the pickup at the outer track position and turn the skew adjustment screws A and B in the same direction alternately one quarter at a time (A•B•A•B •••) so that the RF level becomes the maximum.
(Radial adjustment at the outer track position: Keeping the flatness at the outer track position, adjust the flatness of the whole disk with the adjustment screws A and B)

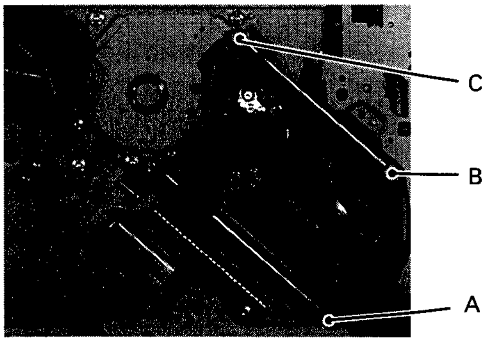
8-4 Move the pickup toward the inner track and turn the skew adjustment screw C so that the RF level becomes the maximum.
(Tangential adjustment at the inner track position: Adjust the flatness of the disc at the inner track position with the djustment screw C)

8-5 Repeat the steps from 8-2 to 8-4 three times, and adjust at the position where the RF level becomes the maximum.

9. Turn off the power in the test mode. After confirming that the disc has stopped, eject the disc.
10. Adjust with a screw rock the shaft and skew adjustment screw to the same state as initial one.


Skew adj. screw
Apply glue
Skew adj. screw
Prevent applied glue from extending beyond this position.
Shaft
Prevent applied glue from extending beyond this position.





6.3 CHECKING THE GRATING AFTER CHANGING THE PICKUP UNIT

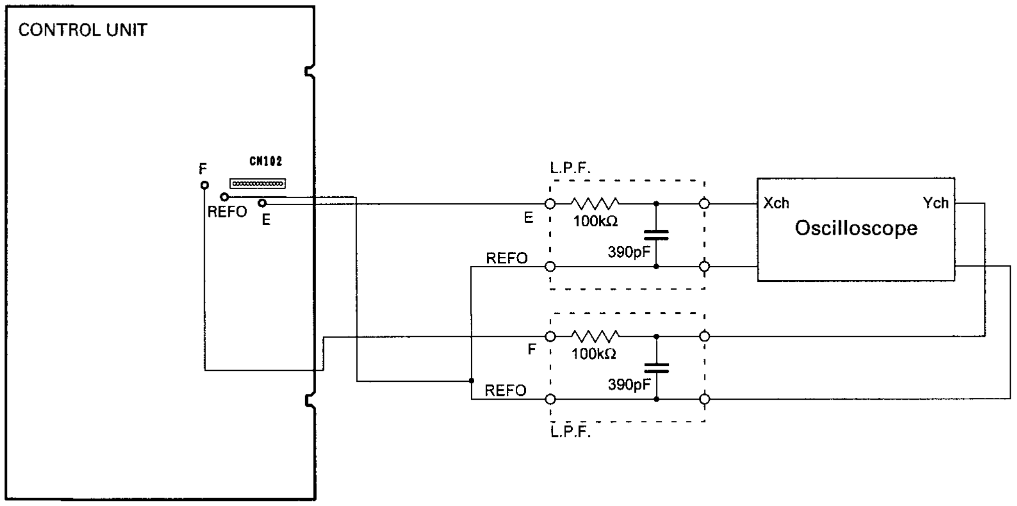
- **Note :**
  The grating angle of the PU unit cannot be adjusted after the PU unit is changed. The PU unit in the CD mechanism module is adjusted on the production line to match the CD mechanism module and is thus the best adjusted PU unit for the CD mechanism module. Changing the PU unit is thus best considered as a last resort. However, if the PU unit must be changed, the grating should be checked using the procedure below.

- **Purpose :**
  To check that the grating is within an acceptable range when the PU unit is changed.

- **Symptoms of Mal-adjustment :**
  If the grating is off by a large amount symptoms such as being unable to close tracking, being unable to perform track search operations, or taking a long time for track searching.

- **Method :**

• Measuring Equipment	• Oscilloscope, Two L.P.F.
• Measuring Points	• E, F, REFO
• Disc	• TCD-784
• Mode	• TEST MODE



- **Checking Procedure**

1. In test mode, load the disc.
2. Using the **SEEK UP** and **SEEK DOWN** buttons, move the PU unit to the innermost track.
3. Press key **Random** to close focus, the display should read "91". Press key **FF** to implement the tracking balance adjustment the display should now read "81". Press key **Random** 4 times. The display will change, returning to "81" on the fourth press.
4. As shown in the diagram above, monitor the LPF outputs using the oscilloscope and check that the phase difference is within 75° . Refer to the photographs supplied to determine the phase angle.
5. If the phase difference is determined to be greater than 75° try changing the PU unit to see if there is any improvement. If, after trying this a number of times, the grating angle does not become less than 75° then the mechanism should be judged to be at fault.

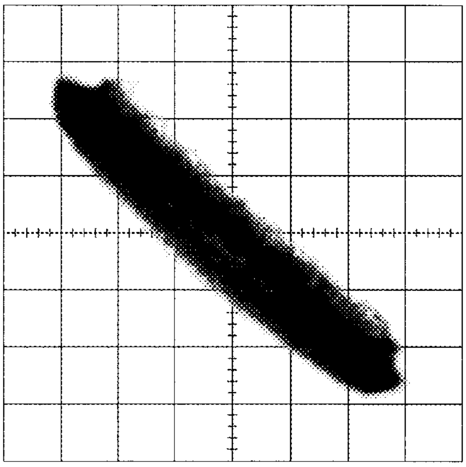
- **Note**
  Because of eccentricity in the disc and a slight misalignment of the clamping center the grating waveform may be seen to "wobble" (the phase difference changes as the disc rotates). The angle specified above indicates the average angle.

- **Hint**
  Reloading the disc changes the clamp position and may decrease the "wobble".

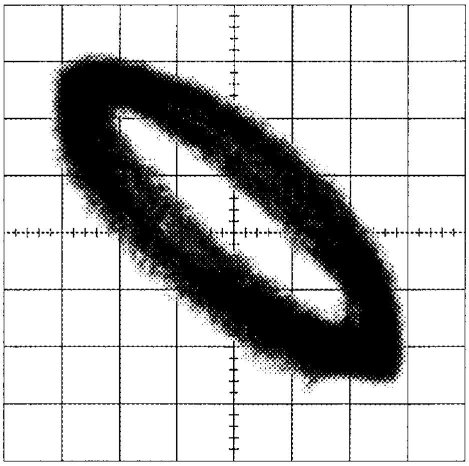
Grating waveform

Ech →Xch 20mV/div, AC
Fch →Ych 20mV/div, AC

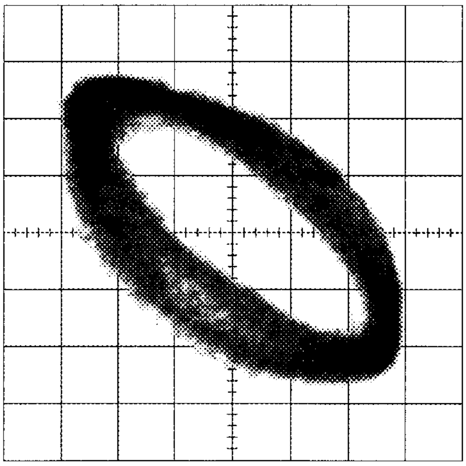
0°



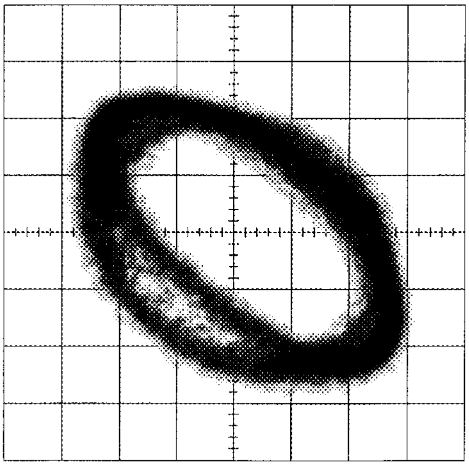
30°



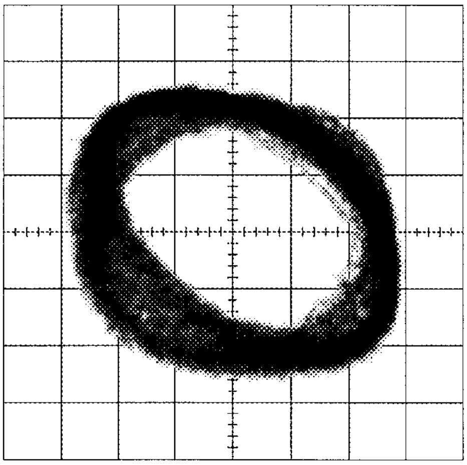
45°



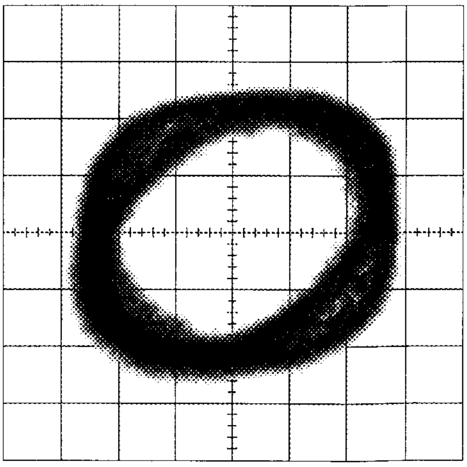
60°



75°



90°

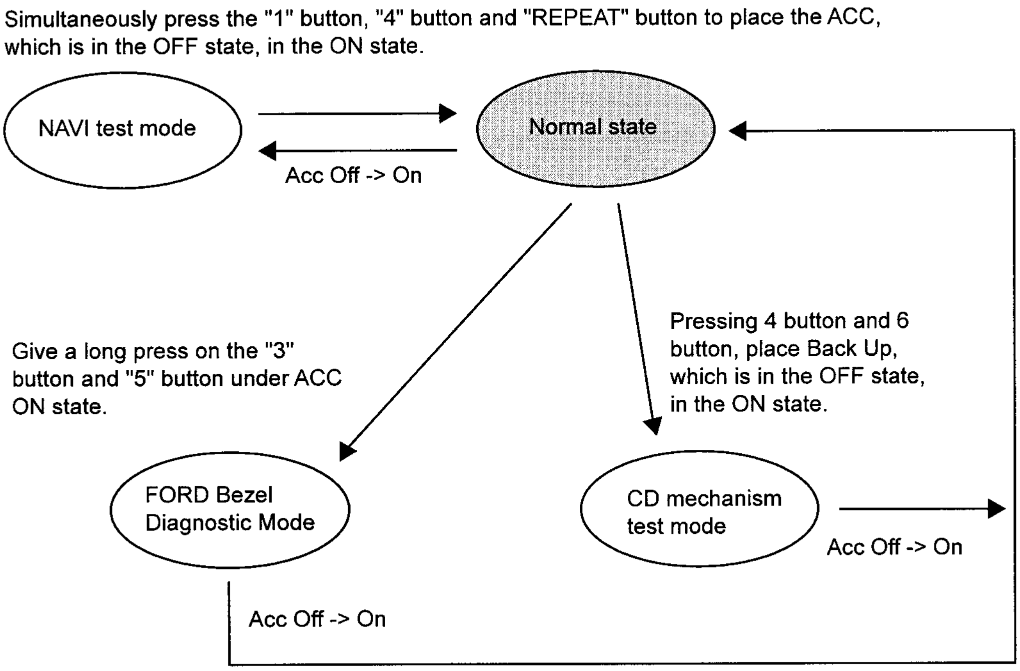


6.4 TEST MODE

The test modes shown below are supported.

1) CD mechanism test mode
2) FORD Bezel Diagnostics mode
3) NAVI test mode

[State transition diagram]


Simultaneously press the "1" button, "4" button and "REPEAT" button to place the ACC, which is in the OFF state, in the ON state.
NAVI test mode
Normal state
Acc Off -> On
Give a long press on the "3" button and "5" button under ACC ON state.
Pressing 4 button and 6 button, place Back Up, which is in the OFF state, in the ON state.
FORD Bezel Diagnostic Mode
CD mechanism test mode
Acc Off -> On
Acc Off -> On

*Special operation

DTC (Diagnostic Trouble Code):

Give a long press on the "3" button and "6" button to place the mechanism in "Bezel Diagnostic" mode. Press "View DTCs." Then, press "Clear DTC" to erase the DTC.

Bring the inner CD mechanism in the transfer mode. :
Place the ACC, which is in the off state, in the ON state with the "Mute" button and "3" button held pressed. In the case where the CD mechanism is not in the transfer mode, it transits to the transfer mode. After completion of the transition, the beep sounds. In the case where the CD mechanism has already been in the transfer mode, the beep does not sound.

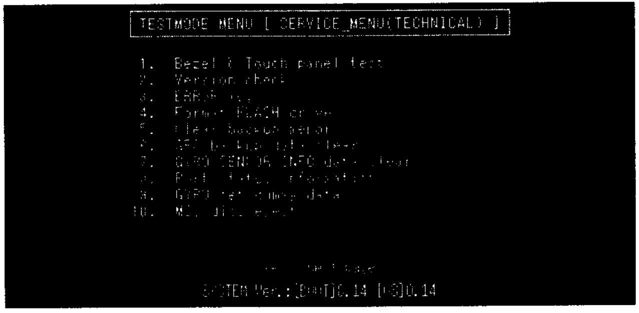
EEPROM clear :
Pressing the "1" button and "3" button, carry out the reset-start operation (to supply B/U power). This resets the data stored on the EEPROM connected to the system microcomputer.

● NAVI TEST MODE

1. How to start up the Test Mode
   - Volume on Service Specification
     1) Press BEZEL [1] + [4] + [REPEAT] buttons simultaneously in ACC OFF status.
     2) ACC ON:
     3) Password Input Screen (Acc Off Recommendation Screen) is displayed.
     4) Input your password.
     5) Then, press [NAV] key.
     6) If the password matches, Test Mode Menu is displayed.

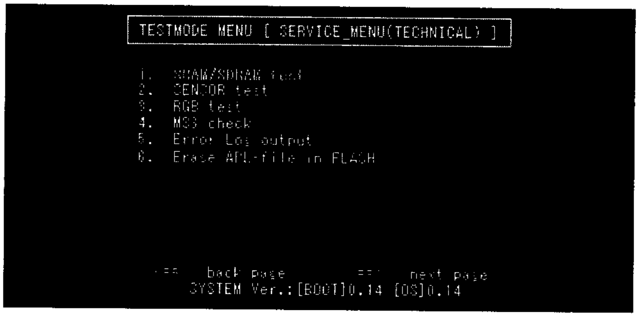
     << Password for Service Section >>
     This password is held privately.

2. Test Mode Menu
   - Volume on Service Specification
     1) OS Version [1st page]


TESTMODE MENU [SERVICE_MENU(TECHNICAL)]
1. Bezel & Touch panel test

No.	Test Items	Description of the Test
1	Bezel & Touch panel test	Test of the Bezel key & Touch-Panel Setting of Calibration
2	Version check	Displays various version information and language information, including information on programs of System, Application, and GPS, System Microcomputer, Monitor Microcomputer, and Mechanism Microcomputer (G3)SRAM.
3	Error log	Displays the error history of the system software stored in SRAM. Up to 24 errors can be displayed, starting from the last error.
4	Format FLASH drive	Initialization of FLASH SOFFS area. Upon completion, the screen goes back to the Menu.
5	Clear backup memory	Initialization of SRAM area used in the system software. Upon completion, the system reboots.
6	GPS backup data clear	Initialization of SRAM area used in the GPS. Upon completion, the screen goes back to the Menu.
7	GYRO SENSOR INFO data clear	Erases learned values in the gyro sensor. Upon completion, the screen goes back to the Menu.
8	Port status information	Displays status of the "Reverse" and vehicle speed pulse.
9	GYRO set dummy data	Sets pseudo-data of the GYRO.
10	MS3 disc eject	Ejects the disc in MS3. * This operation is executed using [SEEK DOWN] key for a reason related to the flap control.

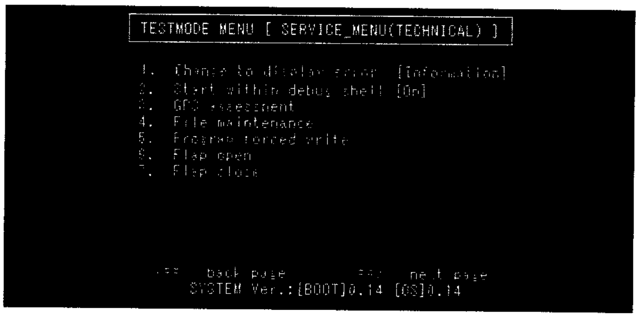
[2nd page]



```
TESTMODE MENU [ SERVICE_MENU(TECHNICAL) ]

1.  SRAM/SDRAM test
2.  SENSOR test
3.  RGB test
4.  MSS check
5.  Error Log output
6.  Erase APL-file in FLASH

<==   back page        ==>   next page
    SYSTEM Ver.:[BOOT]0.14 [OS]0.14
```

No.	Test Items	Description of the Test
1	Change to display error	Setting of display in case of an error (for debugging) Either "Normal Mode" or "Error Information" can be selected. * NG041 Specification: No message is displayed in Normal Mode (Message).
2	Start within debug shell	Switches the starting mode of the shell for debugging.
3	GPS assessment	GPS Assessment System is available. You can go back to the Menu using [DEST] key.
4	File maintenance	Performs file operations: Formatting of the SRAM drive and PC Card (ATA Flash Card); Retrieval of SRAM data to copy them to the PC Card; Copy of data retrieved from SRAM from the PC Card to SRAM.
5	Program forced write	Performs forced overwriting and switching of language of SYS (System), GPS (GPS), and APL (Application) software. You can go back to the Menu using [DEST] key.
6	Flap open	Opens the flap. * When flaps are open, they are closed by the following key operation: [MEDIA], [SOUND], [MUTE], [MENU], [MAP], [DEST], [NAV], [REPEAT]
7	Flap close	Closes the flap.

[3rd page]



```
TESTMODE MENU [ SERVICE_MENU(TECHNICAL) ]

1.  Change to display error  [Information]
2.  Start within debug shell [On]
3.  GPS assessment
4.  File maintenance
5.  Program forced write
6.  Flap open
7.  Flap close

<==   back page        ==>   next page
    SYSTEM Ver.:[BOOT]0.14 [OS]0.14
```

No.	Test Items	Description of the Test
1	SRAM/SDRAM test	SRAM : Performs device check and bus check of the whole area of SRAM. Data are protected. SDRAM : Performs device check and bus check of the whole area of SRAM. Data in BIOS area and USER area are protected. The function of check of the whole SDRAM area is operated in the embedded command RAM.

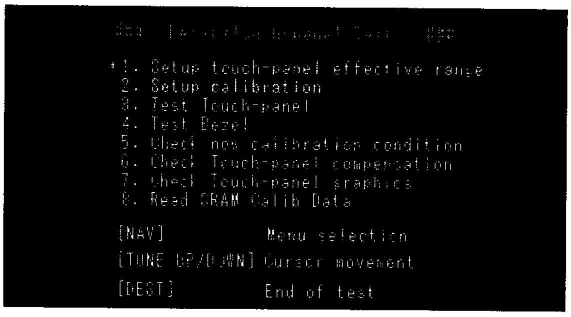
No.	Test Items	Description of the Test
2	SENSOR test	Displays the gyro and supply voltage values and mounting status. You can go back to the Menu using [DEST] key.
3	RGB test	RGB Check Following colors are displayed; Red (FULL) -> Green (FULL) -> Blue (FULL) -> Color Pattern (8 colors including Black / Blue / Red / Pink / Green / Light Blue / Yellow / White in the upper half screen, and 3 colors including Red / Green / Blue in the lower half). Change the color using BEZEL [1] and [6] keys. (Toggle)You can go back to the Menu using [DEST] key.
4	MS3 check	Ready for MS 3 Mechanism Test Mode check.
5	Error Log output	Error log is output to the PC via serial communication.
6	Erase APL-file in FLASH	Erases application files in SOFFS. Upon completion, the screen goes back to the Menu (Files containing the following information are not erased). Integration version Language backup Initialization Start Flag Calibration Setting Data

The following pages are [Test Mode only for Engineers].
If you have entered the system using a password for Service Section, you cannot go further.

Operation Specification for Check of a Remote Controller and Touch Panel in Test Mode

To use this test mode, select “Check of a Remote Controller and Touch Panel” in Page 1 of the Test Mode Service Specification, OS Version.

- BEZEL: Touch Panel Instruction Menu



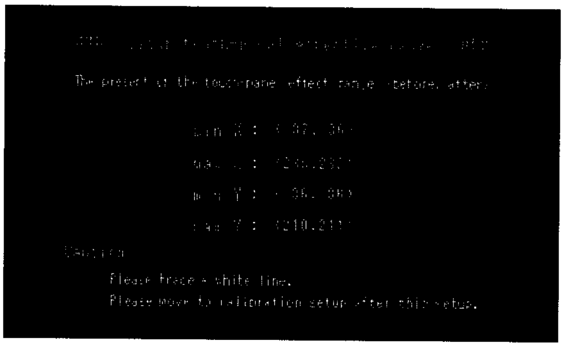
```
*** [illegible] ***

*1. Setup touch-panel effective range
 2. Setup calibration
 3. Test Touch-panel
 4. Test Bezel
 5. Check now calibration condition
 6. Check Touch-panel compensation
 7. Check Touch-panel graphics
 8. Read SRAM Calib Data

[NAV]          Menu selection
[TUNE UP/DOWN] Cursor movement
[DEST]         End of test
```

* The “ * ” mark at the left of the menu item “ 1 ” shows that this setting is complete. Practically, only item “1. Setup...” and item “ 2. Setup...” can have such a “ * ” mark.

[NAV] Decision
[TUNE UP/DOWN] Selection of the Check Ite
[DEST] Go back (to Test Mode Menu)

1. Setup touch-panel effective range
2. Setup calibration
3. Test Touch-panel
4. Test Bezel
5. Check now calibration condition
6. Check Touch-panel compensation
7. Check Touch-panel graphics
8. Read SRAM Calib Data

1. Setup touch-panel effective range



```
*** [illegible] ***

The preset of the touch-panel effect range (before, after)

min X : ( 87, 36)
max X : ([illegible])
min Y : ( 36, 38)
max Y : (210,211)

Caution
    Please trace a white line.
    Please move to calibration setup after this setup.
```

- Description of the Display
  min_x (A , B) : X-coordinate of the touch panel, minimum receivable value
  max_x (A , B) : X-coordinate of the touch panel, maximum receivable value
  min_y (A , B) : Y-coordinate of the touch panel, minimum receivable value
  max_y (A , B) : Y-coordinate of the touch panel, maximum receivable value

A = Coordinates which have been already stored in SRAM
(If no previous data is stored in SRAM, the display will be as follows: min=90, max=180).
Note: See Item " * " below.

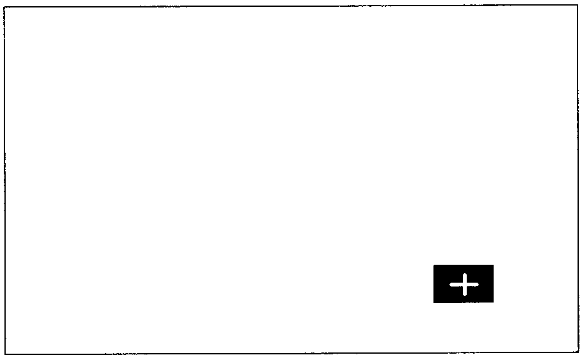
B = Renewed coordinates to be set in SRAM this time.
(If no previous data is stored in SRAM, the display will be as follows: min=90, max=180).

[DEST] Registers the set effective range and goes back to Remote Controller Check Menu.
Data of the effective range is registered in SRAM.

* If no compensation value is set in SRAM, the following initial value is set during start-up of the navigation.
min_x = 37 (Right corner limit)
max_x = 250 (Left corner limit)
min_y = 48 (Lower corner limit)
max_y = 247 (Upper corner limit)

The upper & lower limits which can be set for this check are within ±25 of the above initial values.

2. Setup calibration



Description of the Calibration Setting

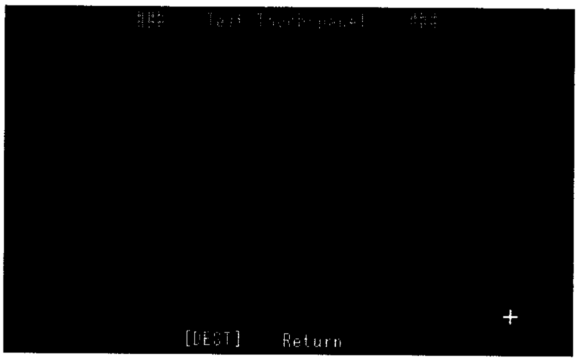
- Perform calibration in displaying the cursor [+] at 9 points on the screen.
  Upon completion, press the button to exit the checking at one point.
  The cursor is always displayed only at one point, and moves to the other point each time the button is pressed properly.
- When pressing [+], press the center of + precisely.
- The calibration result will be registered in SRAM and FLASH.
- Calibration is terminated abnormally, if 20 seconds have passed without any effective operation. In this case, no data are stored in SRAM and FLASH.
- The recognition rate of pressing the cursor [+] is limited to ±8 coordinates horizontally and vertically (Error: linear 3%) .

If you perform no calibration compensation, the following initial values are set automatically.

A(x, y) = (-2, +1) B(x, y) = (-2, -1) C(x, y) = (-2, -5)
D(x, y) = (0, -5) E(x, y) = (0, 0) F(x, y) = (-1, +3)
G(x, y) = (+1, +4) H(x, y) = (+2, 0) I (x, y) = (+2, -5)

The points A to I denotes the order of calibration compensation.

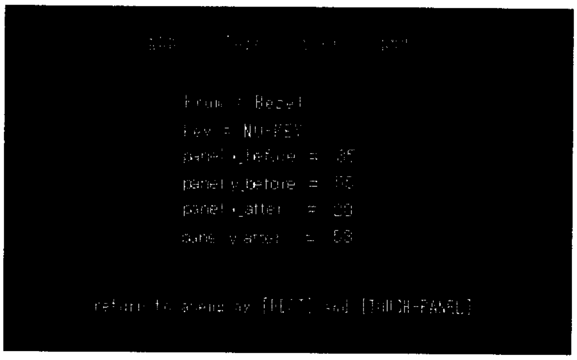
3. Test Touch-panel



[RETURN] : Terminates the recognition test to return to the Remote Controller Check Menu.

Description of the Recognition Test
- It tests whether the system recognizes pressing of the touch panel properly.
  A cursor [+] is displayed at 9 points on the screen.
  A white cursor is always displayed at only one point.
  Upon successful pressing, the cursor moves to the next point.
  However, when the system recognizes that the pressed point is away from the center of the rendered [+] mark by ± 5 dots vertically or 6 dots horizontally, it displays an "error recognition coordinate", i.e. [+] in red.
- When pressing [+], press the center of + precisely.

4. Bezel test


From : Bezel
key = NO-KEY
panel x_before = [illegible]
panel y_before = [illegible]
panel x_after = [illegible]
panel y_after = [illegible]

[Pressing [DEST] + [Touch-Panel] : goes back to the Bezel/Touch-Panel Check Menu.

Description of the Display

From	: Source Information (displays whether the Bezel button has been pressed or the steering wheel control activated it)
remo code	: Name of the pressed key.
panel x_before	: X-coordinate normalized (expanded) within the effective range
panel y_before	: Y-coordinate normalized (expanded) within the effective range
panel x_after	: X-coordinate of the result after the calibration compensation
panel y_after	: Y-coordinate of the result after the calibration compensation

5. The current calibration state

[DEST]
Return menu

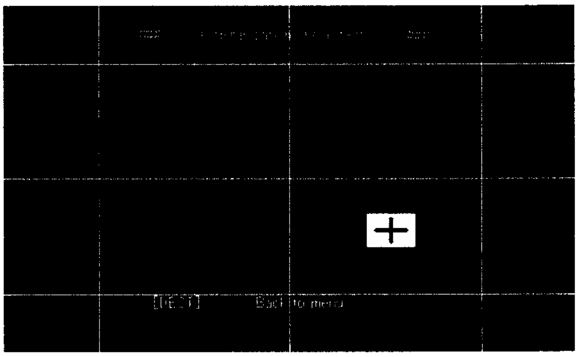
Contents of the Display

The display shows the present calibration compensation status.

The following data are displayed:

[With no calibration value](White Letters)	When no compensation value exists in SRAM
[The calibration compensation value is substituted.]	When SRAM has a set compensation value.
[The initial value is substituted.]	When SRAM has a value that is stored as an initial value.
[Error Condition]	When SRAM's value is destroyed

6. Compensation check test



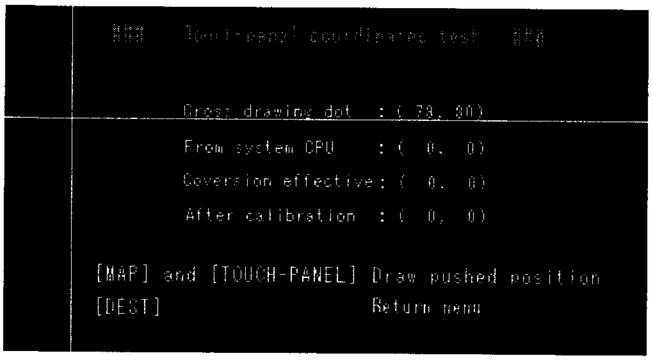
[DEST] Goes back to the Bezel/Touch-Panel Check Menu.

Description of the Contents of Check:

For this check, the screen shows only the title and white and red lines.
Press any point on the monitor.
For the coordinates which the system recognized as pressed, the screen shows coordinates after calibration compensation using a [+] mark.
If this [+] mark deviates from the pressed point, probably the setting of the effective range or the calibration compensation have not been performed properly.
Perform these check items again.

* Deducing from the theory of 9-points calibration, the cross points of the vertical and horizontal white lines have the best precision. Theoretically, the cross points of the vertical and horizontal red lines have the worst precision.

7. Touch-panel _ coordinates test



```
### Touch-panel coordinates test ###

      Cross drawing dot   : ( 79, 80)
      From system CPU     : (  0,  0)
      Coversion effective : (  0,  0)
      After calibration   : (  0,  0)

[MAP] and [TOUCH-PANEL] Draw pushed position
[DEST]                  Return menu
```

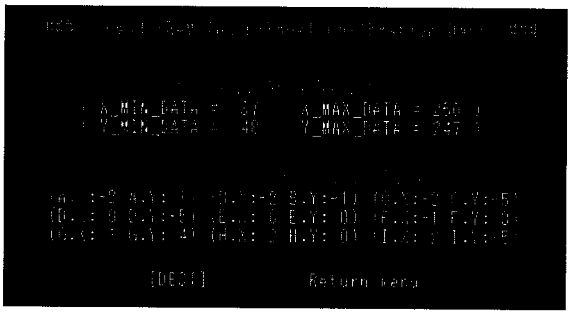
[MAP + Touch-Panel Pressing] displays the present coordinate values of the Touch-Panel.

[↑]	The horizontal lines go up.
[↓]	The horizontal lines go down.
[←]	The vertical lines go left.
[→]	The vertical lines go right.
[DEST]	Goes back to the Bezel/Touch-Panel Check Menu

Description of the Touch-Panel _ Graphics Coordinates Check (from the top)

(79,80)	: Rendering system coordinates of the cross point of the vertical & horizontal line (X- and Y-coordinate) [0_500, 0_240]
(0, 0)	: AD data values received from the system computer, which shows the coordinates of the pressed point (X- and Y-coordinate)
(0, 0)	: Coordinates obtained by normalization of the AD data values of the pressed point within the effective range (X- and Y-coordinate)
(0, 0)	: Coordinates obtained by calibration compensation of the normalized coordinates (X- and Y-coordinate)

8. Read SRAM Touch-Panel Calibration Data



[DEST] Goes back to the Bezel/Touch-Panel Check Menu

Description of the Check of the SRAM Calibration Set Value

This is a test to display the Touch-Panel compensation values stored in SRAM (/SOFFS). The read data are displayed as "Panel Area Data" and "9Point Calibration Diff Data", respectively.

Panel Area Data(Effective range < Upper & Lower Limits >)

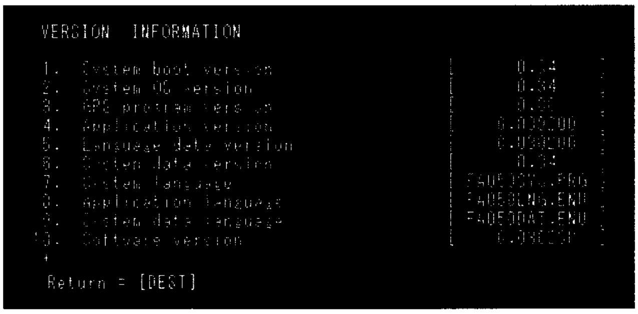
X_MIN/MAX_DATA : Limit values of the horizontal axis of the Touch-Panel(Right Corner <0 - >: Left Corner < - 255>)
Y_MIN/MAX_DATA : Limit values of the vertical axis of the Touch-Panel (Bottom corner <0 - >: Top corner < - 255>)

* Practically, values around 0 or 255 are not accepted for storage.
Only values ±25 of the range mentioned in the Check 1 are accepted.

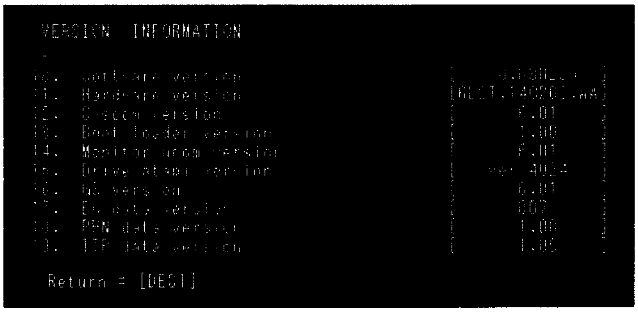
9Point Calibration Diff Data (Set values for 9-Point Calibration)
It shows how far the coordinate which is recognized as pressed deviates from the reference value (rendering point), for each of the point A to I (Points A _ I refer to the points pressed in Check 2).
Values within the acceptable range of ±8 mentioned in Check 2 are displayed.

Version Check

Version Information Screen



```
VERSION  INFORMATION

 1.  System boot version          [    0.34     ]
 2.  System OS version            [    0.34     ]
 3.  GPS program version          [ [illegible] ]
 4.  Application version          [  6.030200   ]
 5.  Language data version        [  6.030200   ]
 6.  System data version          [    0.34     ]
 7.  System language              [ [illegible] ]
 8.  Application language         [ FA050LNG.ENU ]
 9.  System data language         [ FA050DAT.ENU ]
10.  Software version             [ [illegible] ]
 +
 Return = [DEST]
```



```
VERSION  INFORMATION
 -
10.  Software version             [ [illegible] ]
11.  Hardware version             [ [illegible] ]
12.  [illegible] version          [    6.01     ]
13.  Boot loader version          [    1.00     ]
14.  Monitor prom version         [    F.01     ]
15.  [illegible] version          [ [illegible] ]
16.  [illegible] version          [    6.01     ]
17.  [illegible] data version     [    007      ]
18.  PRN data version             [    1.06     ]
19.  TTF data version             [    1.05     ]

 Return = [DEST]
```

<< Key Operation >>
[TUNE up] : scrolls the screen down to show lower version display items
[TUNE down] : scrolls the screen up to show higher version display items
[DEST] : exits the Version Information Screen

Description of Each Item

No.	Item Description	Displayed	Information	File Name
1	System boot version	Displays the version of System Software Boot Section (FLASH)	[**.**] _ Version of the System Software Boot Section	FA050BOT.PRG
2	System OS version	Displays the version of System Software OS Section(FLASH)	[**.**]_ Version of the System Software OS Section [NG]_ No system program available	FA050SYS.ENU FA050SYS.FRC FA050SYS.ESU
3	GPS program version	Displays the version of GPS program (GIDRA)	[**.**]_ Version of the GPS program [NG]_ No GPS program available	FA050GPS.PRG
4	Application version	Displays the version of Application program (FLASH)	[**.******]_ Version of the Application program [NG]_ No application program available	FA050LNG.ENU FA050LNG.FRC FA050LNG.ESU
5	Language data version	Displays the version of the language data program	[**.******]_ Version of the language program [NG]_ No language program available	FA050LNG.ENU FA050LNG.FRC FA050LNG.ESU
6	System data version	Displays the version of the system data program	[**.**]_ Version of the system data program [NG]_ No system data available	FA050DAT.ENU FA050DAT.FRC FA050DAT.ESU

No.	Item Description	Displayed	Information	File Name
7	System language	language Displays the system program language	[**.**] _ Application data language [NG] _ No system language data available	FA050LNG.ENU FA050LNG.FRC FA050LNG.ESU
8	Application data language	Displays the application data language	[**.**] _ Application data language [NG] _ No application language data available	FA050LNG.ENU FA050LNG.FRC FA050LNG.ESU
9	System data language	Displays the System data language	[**.**] _ System data language [NG] _ No system data language available	FA050DAT.ENU FA050DAT.FRC FA050DAT.ESU
10	Software version	Displays the integration version	[**.**] _ Integration version [NG] _ No integration version available	FA050VER.DAT
11	Hardware version	Displays the hardware version	[**.**] _ Hardware version [NG] _ No hardware version available	
12	Syscom version	Displays the version of the system microcomputer	[**.**] _ Version of the system microcomputer [NG] _ No communication with the system microcomputer is established	
13	Boot loader version	Displays the version of the boot loader	[**.**]_ Version of the boot loader [NG]_ No communication with the system microcomputer is established	
14	Monitor ucom version	Displays the version of the monitor microcomputer	[**.**]_ Version of the monitor microcomputer [NG]_ No communication with the monitor microcomputer is established	
15	Drive atapi version	Displays the version of the Mechanism Microcomputer (ROM only)	[ver****]_ Version of the Mechanism Microcomputer [NG]_ No communication with the Mechanism microcomputer is established [NON]_ V+R Mechanism	
16	G3 version	Displays the version of the G3 Mechanism	[**.**]_ Version of the G3 Mechanism [NG]_ No G3 Mechanism version obtained	
17	EQ version	Displays the version of EQ	[***]_ Version of EQ [NG]_ No EQ version obtained	
18	PHN data version	Displays the version of the Sound-Recognition Data	[**.**]_Version of the Sound-Recognition Data [NG]_ No Sound-Recognition Data obtained	
19	TTP data version	Displays the version of the Sound-Recognition Conversion Tag Data	[**.**]_ Version of the Sound-Recognition Conversion Tag Data [NG]_ No version of the Sound-Recognition Conversion Tag Data obtained.	

Error Information

1. Error Information

Here we explain information on errors arising from the system software. In the system software, up to 24 error information data are stored in SRAM as "History". You can store an error line number, error code, and detailed information as error history by executing hi_sysdwn().

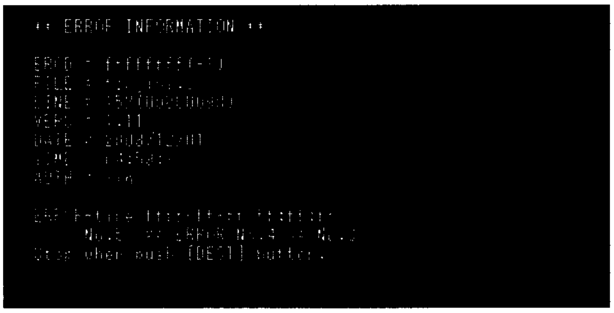
There are the following 3 types of hi_sysdwn() execution:

1. Intentional execution of hi_sysdwn() in case of a fatal error in BIOS. This is regarded as a general error.
2. Occurrence of one of the following errors: Double Exception, Fatal Exception, Illegal Command Code, Zero Divide, and TRAP Command error.
3. Reset activated by the Watch Dog Timer function. This occurs when the program ceases to function properly.

2. Error History Entry

The Error History Entry shows up to 24 error information data, starting from the last error occurred. There are 2 types of error history displays, depending on whether there are any detailed information (program name, version no., date and time of creation, and creater) in the argument to be passed to hi_sysdwn().

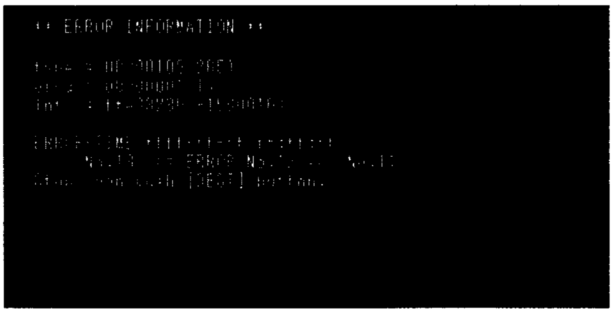
1. In case there is detailed information:



```
** ERROR INFORMATION **
```

ERCD	Error Code (If the FILE column is "int_wdt.c", ID of the task in operation is displayed when the last 4 digits are reset)
FILE	Name of the program where the error occurred (In case of "int_wdt.c", it shows that reset is activated by the Watch Dog Timer. In this case, ERCD shows other information than error information).
LINE	Program line number where the error occurred
VERS	Version number of the program where the error occurred
DATE	Date of creation of the program where the error occurred
TIME	Time of creation of the program where the error occurred
AUTH	Creator of the program where the error occurred
ERROR - TIME	Time of error occurrence

2. In case there is no detailed information
(in case of error occurrence in other area than the C Source File):

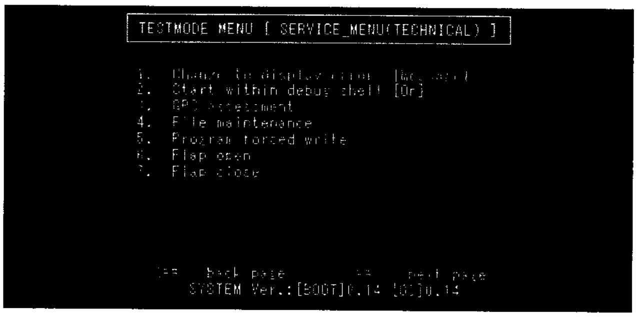


```
** ERROR INFORMATION **
```

type	Execution address at the time of the error occurrence
ercd	Exception factor
inf	Task number of the exception error ("0" means that the error occurred in a non-task section)
ERROR - TIME	Date and Time of the error

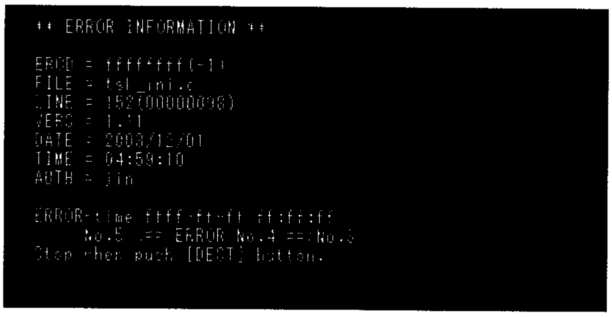
3. Switching of the Error Information
With the default setting, the product does not show any message when an error occurs. You can make the system display error information in case of an error, by switching the error information in the test mode. However, the error history entry display is the same in the both modes.

- Error Message Display (Default)
  <Setting in the Test Mode>



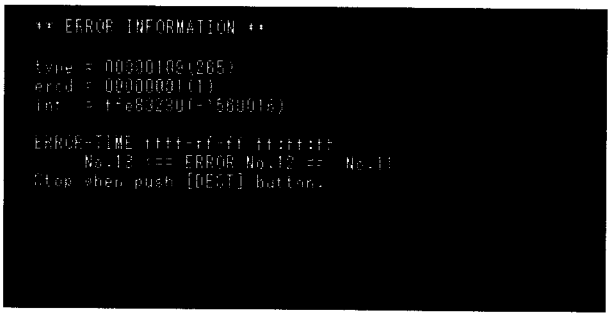
```
TESTMODE MENU [ SERVICE_MENU(TECHNICAL) ]

1.  Change to display error  [illegible]
2.  Start within debug shell [On]
3.  GPS assessment
4.  File maintenance
5.  Program forced write
6.  Flap open
7.  Flap close

<==  back page          ==>  next page
    SYSTEM Ver.:[BOOT]0.14 [OS]0.14
```

- Error Message Display
  <Setting in the Test Mode>



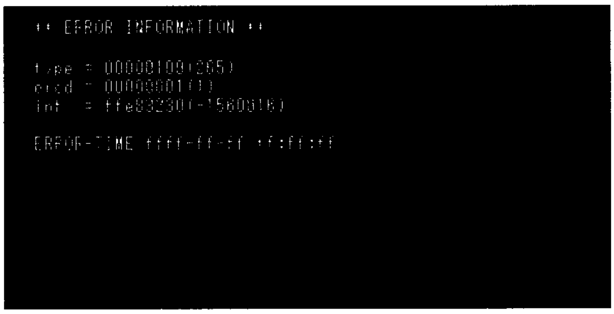
```
** ERROR INFORMATION **

ERCD = ffffffff(-1)
FILE = tsl_ini.c
LINE = 152(00000098)
VERS = 1.11
DATE = 2003/12/01
TIME = 04:59:10
AUTH = jin

ERROR-time ffff-ff-ff ff:ff:ff
     No.5 <== ERROR No.4 ==>No.3
Stop when push [DEST] button.
```

<Display in case of an error>
- With detailed information



```
** ERROR INFORMATION **

type = 00000109(265)
ercd = 00000001(1)
inf  = ffe83230(-1560016)

ERROR-TIME ffff-ff-ff ff:ff:ff
     No.13 <== ERROR No.12 ==> No.11
Stop when push [DEST] button.
```

- Without detailed information

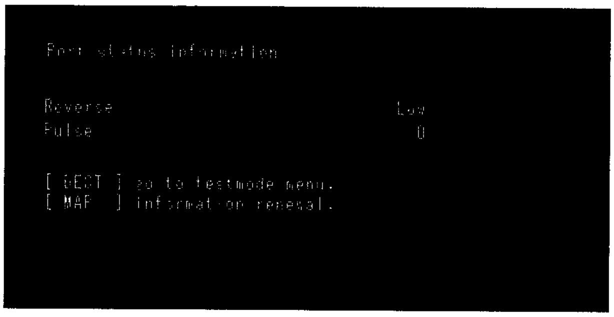


```
** ERROR INFORMATION **

type = 00000109(265)
ercd = 00000001(1)
int  = ffe83230(-1560016)

ERROR-TIME ffff-ff-ff ff:ff:ff
```

4. Watch Dog Timer
   This product has an embedded monitoring mechanism which monitors at intervals whether the software is operating properly. If this check mechanism stops functioning, a reset request is sent to the power supply microcomputer when predetermined time (about 4 seconds) has passed.
   ERCD stores a special code other than error information, in order to record operation status at such a time.

Test Mode: Specification of the Port Status Information Display

Port Status Information Display Screen

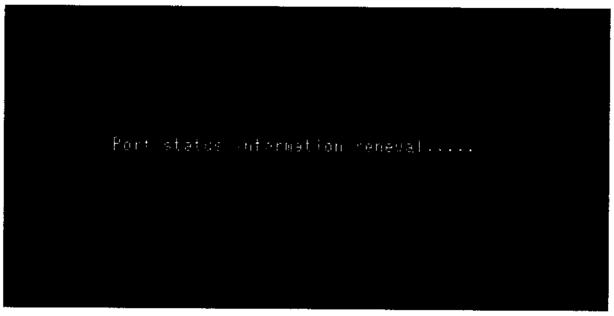


```
Port status information

Reverse                                  Low
Pulse                                      0

[ DEST ] go to testmode menu.
[ MAP  ] information renewal.
```

The status of the Reverse is shown as H(Hi) or L(Low).

The vehicle speed pulse is expressed in a value equals to 1/5 of frequency of the input vehicle speed signal.
Example: If the vehicle speed signal is 100Hz, the indicated value will be 20.

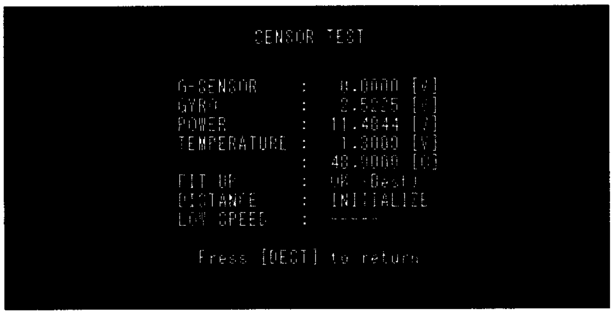
Port Status Information Renewal Screen



```
Port status information renewal.....
```

Test Mode: Specification of the Sensor Test Screen

- Test Screen



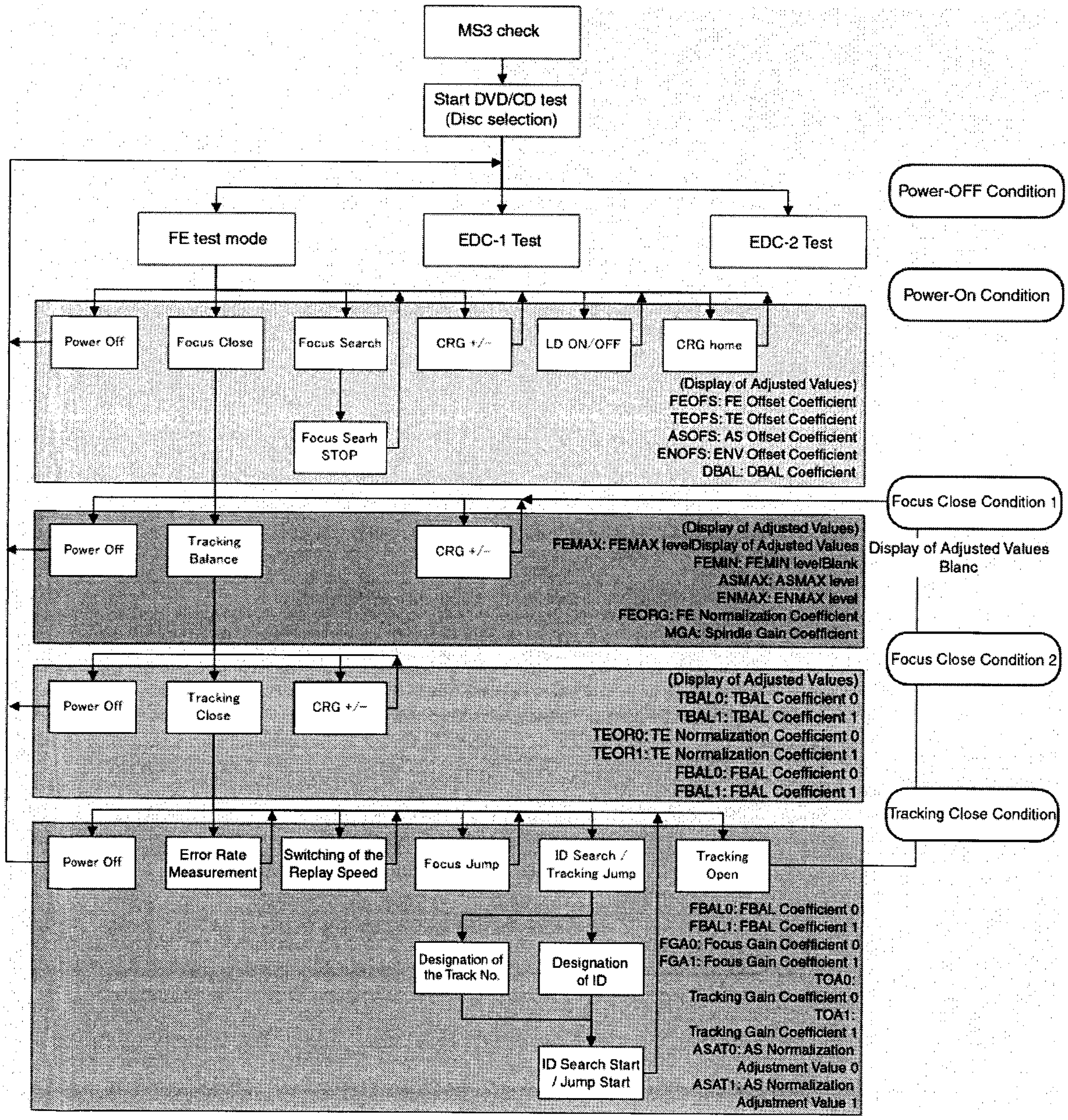
```
SENSOR TEST

G-SENSOR     :   0.0000 [V]
GYRO         :   2.5225 [V]
POWER        :  11.4844 [V]
TEMPERATURE  :   1.3000 [V]
             :  48.9000 [C]
FIT UP       :  OK (Best)
DISTANCE     :  INITIALIZE
LOW SPEED    :  -----

Press [DEST] to return
```

<table>
<tr><td>G-SENSOR</td><td>Display of the G sensor voltage</td></tr>
<tr><td>GYRO</td><td>Display of the gyro voltage</td></tr>
<tr><td>POWER</td><td>Display of the supply voltage</td></tr>
<tr><td>TEMPERATURE</td><td>Voltage of the Temperature sensor ([V])
Temperature of the temperature sensor ([C])</td></tr>
<tr><td>FIT UP</td><td>Display of the Mounting Status
<table>
<tr><th>Display</th><th>Status</th></tr>
<tr><td>• NG</td><td>Mounting Position NG</td></tr>
<tr><td>• OK</td><td>Mounting Position OK (3rd Best)</td></tr>
<tr><td>• OK (Best)</td><td>Mounting Position OK (2nd Best)</td></tr>
<tr><td>• OK (Best)</td><td>Mounting Position OK (1st Best)</td></tr>
</table></td></tr>
<tr><td>DISTANCE</td><td>DISTANCE Display of the Distance Calculation Status
<table>
<tr><th>Display</th><th>Status</th></tr>
<tr><td>• INITIALIZE</td><td>Sensor in initial learning process</td></tr>
<tr><td>• GPS</td><td>GPS Distance (Model without G-sensor, pulse not connected)</td></tr>
<tr><td>• G-SENSOR</td><td>G-sensor Distance (Simplified Hybrid)</td></tr>
<tr><td>• ND-PG1</td><td>ND-PG1 Distance</td></tr>
<tr><td>• SPEED PULSE</td><td>Vehicle speed pulse distance</td></tr>
</table></td></tr>
<tr><td>LOW SPEED</td><td>LOW SPEED Display of the minimum output speed of the low-speed NG vehicle (dependent on the status of DISTANCE)
<table>
<tr><th>DISTANCE Status</th><th>SPEED PULSE Status</th><th>Display</th></tr>
<tr><td></td><td>Leaning Low-Speed Vehicle Speed Pulse</td><td>Check</td></tr>
<tr><td>SPEED PULSE</td><td>Low-Speed Vehicle Speed Pulse</td><td>OK</td></tr>
<tr><td></td><td>Low-Speed Vehicle Speed Pulse</td><td>NG</td></tr>
<tr><td>Others</td><td></td><td>-----</td></tr>
</table></td></tr>
</table>

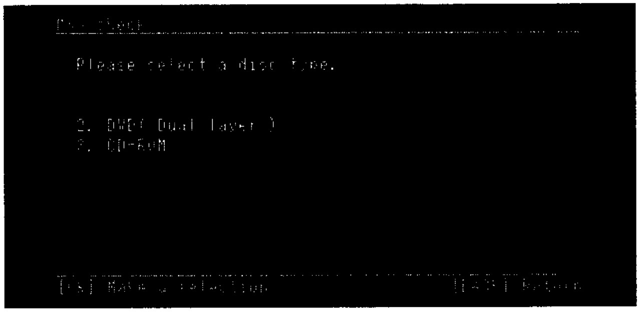
MS3 Test Mode

List of the Keys to be used
[Enter] : NAV
[Return] : DEST
[Direction keys] : ↑ :TUNE_UP, ↓ :TUNE_UP, ← :1, → :6

[MS3 Test Mode] Flow Chart


MS3 check
Start DVD/CD test (Disc selection)
FE test mode
EDC-1 Test
EDC-2 Test
Power-OFF Condition
Power-On Condition
Power Off
Focus Close
Focus Search
CRG +/−
LD ON/OFF
CRG home
Focus Searh STOP
(Display of Adjusted Values)
FEOFS: FE Offset Coefficient
TEOFS: TE Offset Coefficient
ASOFS: AS Offset Coefficient
ENOFS: ENV Offset Coefficient
DBAL: DBAL Coefficient
Focus Close Condition 1
Power Off
Tracking Balance
CRG +/−
(Display of Adjusted Values)
FEMAX: FEMAX levelDisplay of Adjusted Values
FEMIN: FEMIN levelBlank
ASMAX: ASMAX level
ENMAX: ENMAX level
FEORG: FE Normalization Coefficient
MGA: Spindle Gain Coefficient
Display of Adjusted Values Blanc
Focus Close Condition 2
Power Off
Tracking Close
CRG +/−
(Display of Adjusted Values)
TBAL0: TBAL Coefficient 0
TBAL1: TBAL Coefficient 1
TEOR0: TE Normalization Coefficient 0
TEOR1: TE Normalization Coefficient 1
FBAL0: FBAL Coefficient 0
FBAL1: FBAL Coefficient 1
Tracking Close Condition
Power Off
Error Rate Measurement
Switching of the Replay Speed
Focus Jump
ID Search / Tracking Jump
Tracking Open
Designation of the Track No.
Designation of ID
ID Search Start / Jump Start
FBAL0: FBAL Coefficient 0
FBAL1: FBAL Coefficient 1
FGA0: Focus Gain Coefficient 0
FGA1: Focus Gain Coefficient 1
TOA0: Tracking Gain Coefficient 0
TOA1: Tracking Gain Coefficient 1
ASAT0: AS Normalization Adjustment Value 0
ASAT1: AS Normalization Adjustment Value 1

[MS3 Test Mode] : Initial screen

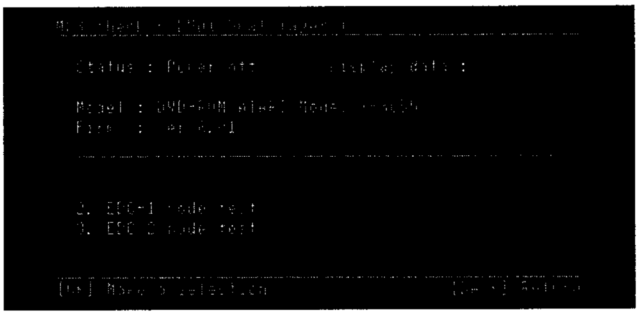


Please select a disc type.

2. DVD(Dual layer)
3. CD-ROM

[Direction + Enter]	(1) Starts DVD (single layer) test. (Use a single layer DVD disc.) (2) Starts DVD (dual layer) test. (Use a dual layer DVD disc.) (3) Starts CD test. (Use a CD disc.)
[Return]	Returns to the test mode menu.

[MS3 Test menu] : Main menu screen

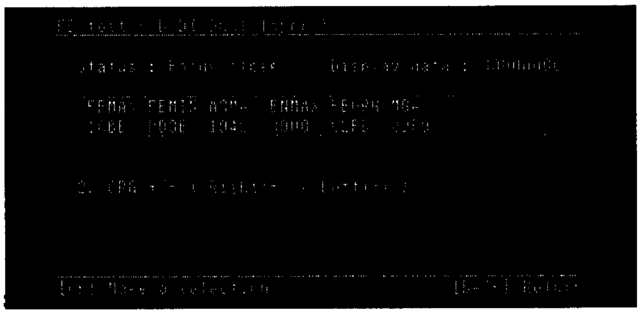


Status : Power off

2. EDC-1 mode test
3. EDC-2 mode test

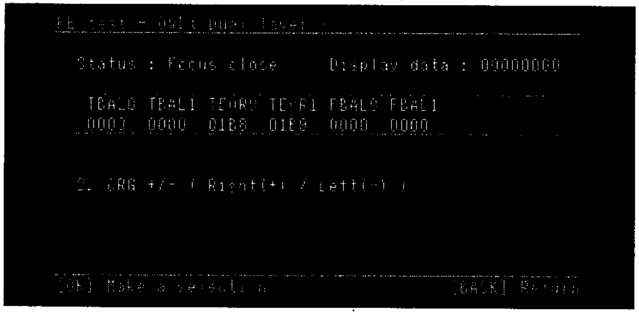
Status	: "Power off" under normal condition.
Model	: Model name of the drive being used.
Firm	: Version number of the drive being used.
[Direction + Enter]	(1) Starts FE test mode. (2) Starts EDC-1 mode test. (3) Starts EDC-2 mode test.
[Return]	Returns to the test mode menu.

[FE Test 2] : FE test mode screen (focus close)



Display data	: Displays an error code in case of an error.
Adjusted value	: See the Flow Chart for the contents of adjusted values.
[Direction + Enter]	[1] Tracking balance [2] Carriage adjustment The carriage moves outward with [→] key and moves inward with [←] key.
[Return]	Returns to the main menu.

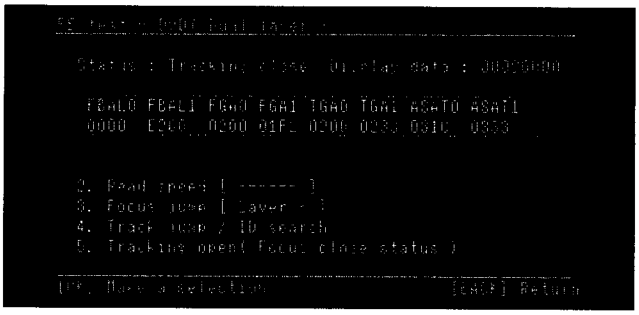
[FE Test 3] : FE test mode screen (tracking balance)



```
Status : Focus close      Display data : 00000000

 TBAL0 TBAL1 TE0R0 TE-R1 FBAL0 FBAL1
 0003  0000  01B8  01E9  0000  0000


2. CRG +/- ( Right(+) / Left(-) )



[OK] Make a selection                  [BACK] Return
```

Status	: "Focus close" under normal condition.
Display data	: Displays an error code in case of an error.
Adjusted value	: See the Flow Chart for the contents of adjusted values.
[Direction + Enter]	[1] Tracking close
	[2] Carriage adjustment The carriage moves outward with [→] key and moves inward with [←] key.
[Return]	Returns to the main menu.

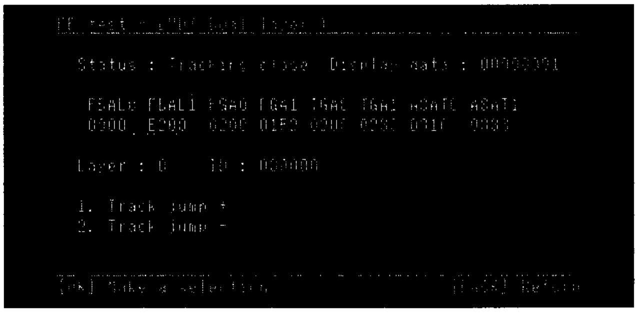
[FE Test 4] : FE test mode screen (tracking close)



```
Status : Tracking close  Display data : 00000000

 FBAL0 FBAL1 FGA0 FGA1 TGA0 TGA1 ASAT0 ASAT1
 0000  E200  0300 01FC 0200 0233 031C  0333


2. Read speed [ ------ ]
3. Focus jump [ Layer - ]
4. Track jump / ID search
5. Tracking open( Focus close status )

[OK] Make a selection                  [BACK] Return
```

Status	: "Tracking close" under normal condition.
Display data	: Displays [2] Playback-speed, [4] Layer of the jump destination and error code.
Adjusted value	: See the Flow Chart for the contents of adjusted values.
[Direction + Enter]	[1] Error rate measurement Displays the error rate by index (X.XXXE-X). (Other operations cannot be executed during error rate measurement.)
	[2] Playback-speed switching Toggle (DVD x2.5CAV/ x1CLV, CD x10CAV/ x2CLV) with [Enter] key. Display data : 00000000 = CAVx1 00000001 = CLVx1 00000002 = CAVx10 00000003= CLVx2
	[3] Focus jump Toggle (Layer 0/1) with [Enter] key. Display data : 00000000 = Layer 0 00000001 = Layer 1
	[4] Track jump/ID search Toggle (ON/OFF) with [Enter] key.
	[5] Track opening Clears the adjusted value display and moves to the focus close status.
[Return]	Returns to the main menu.

[FE Test 5] : FE test mode screen (track jump/ID search)



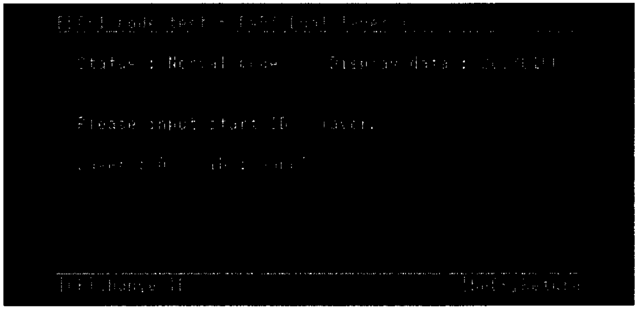
Status : Tracking close

Layer : 0

1. Track jump +
2. Track jump -

[Direction + Enter]	[1] Backward track jump [2] Forward track jump Select the number of tracks to be jumped with [Direction] key. Press [Enter] key to execute the jump. [3] Searching the specified layer and ID Select the layer and ID (address) to be searched with [Direction] key. Press [Enter] key to execute the search. Specify the address in "mmssff (minute: second: frame)" for CD-ROM.
[Return]	Returns to the tracking close status.

[EDC-1/EDC-2 test menu] : EDC-1/EDC-2 Test Menu screen



Status : Normal mode

Please input start ID & layer.

EDC-1	: Executes EDC test continuously.
EDC-2	: Executes EDC test by block unit.
Status	: "Normal mode" under normal condition. Adjusted value: See the Flow Chart for the contents of adjusted values.
Layer	: Layer being tested
ID	: ID being tested
[Direction + Enter]	Select the layer and ID (address) of the jump destination with [Direction] key. Press [Enter] to execute the jump. Specify the address in "mmssff (minute: second: frame)" for CD-ROM.
[Return]	Returns to the main menu.

[MS3 Test mode] : Display data (Error code)

E0000000	Overrun error (Communication error)
E0010000	Framing error (Communication error)
E0020000	Writing, setting error (An error has occurred at the time of setting M62 CRAM, a command, etc.)
E0030000	Parameter error (Set parameter is invalid.)
E0040000	Command error (Set command is invalid.)
E0060000	Command uncompleted
E0100000	Decode normally completed (Decode has been normally completed from the specified ID to the final target ID in EDC mode.)
E0FFFF00	Hard reset or soft reset

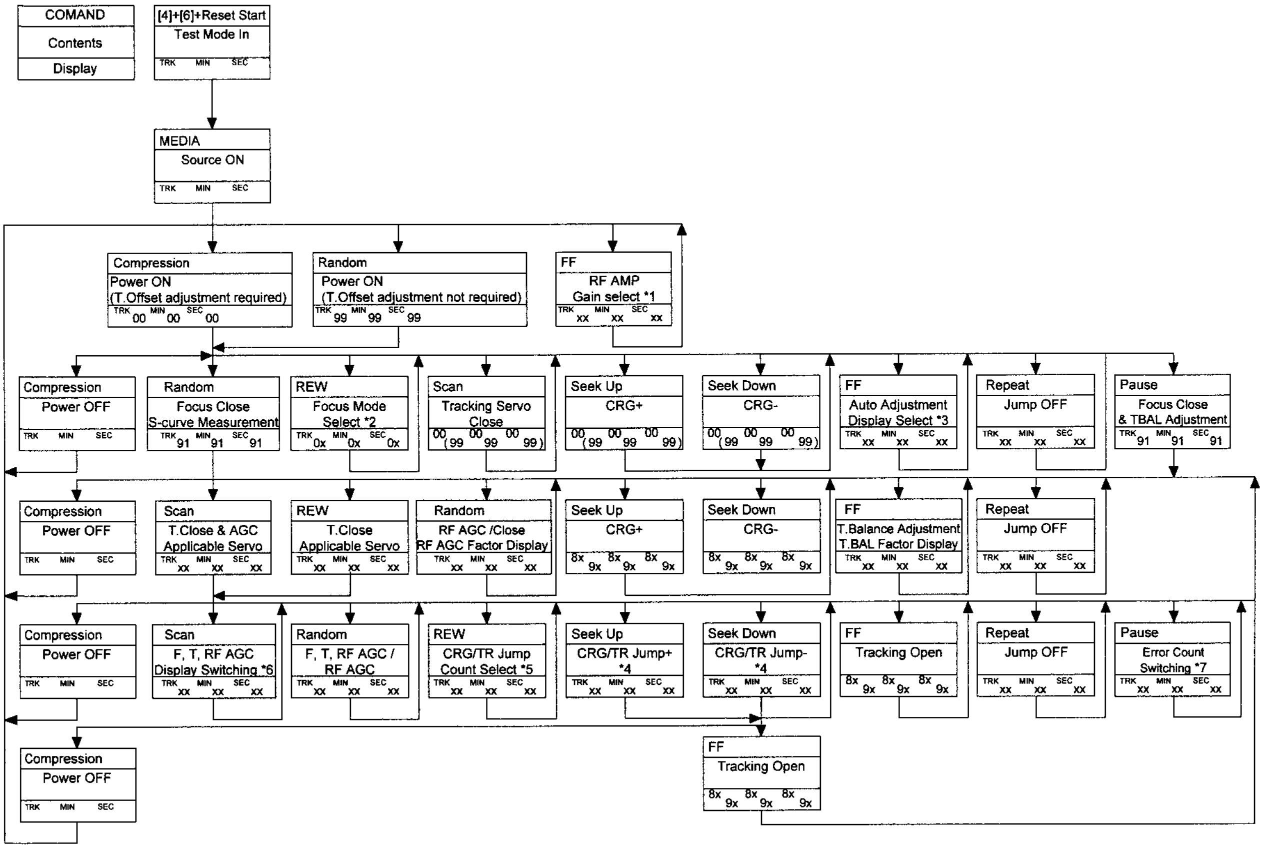
The followings are valid only during error rate measurement or in EDC mode

E0015300	Media Load or Eject Failed (Mechanical error)
E0018000	High Temperature (High temperature sense)
E0018100	Voltage Out of Range (VD power supply failure)
E0023A00	Medium Not Present (No disc)
E0030200	No Seek Complete (Seek failure)
E0031100	Unrecovered Read Error (Formatter Error, ORC (EDC) Error, Uncorrectable Error, etc.)
E0030900	Track Following Error (Servo failure)

In case that the above error codes cannot be obtained, ATAPI BIOS error code will be displayed.

● CD MECHANISM TEST MODE

G3 Servo Test Mode Flow Chart


COMAND
Contents
Display
[4]+[6]+Reset Start
Test Mode In
TRK MIN SEC
MEDIA
Source ON
TRK MIN SEC
Compression
Power ON
(T.Offset adjustment required)
TRK 00 MIN 00 SEC 00
Random
Power ON
(T.Offset adjustment not required)
TRK 99 MIN 99 SEC 99
FF
RF AMP
Gain select *1
TRK xx MIN xx SEC xx
Compression
Power OFF
Random
Focus Close
S-curve Measurement
TRK 91 MIN 91 SEC 91
REW
Focus Mode
Select *2
TRK 0x MIN 0x SEC 0x
Scan
Tracking Servo
Close
00 00 00 (99 99 99)
Seek Up
CRG+
00 00 00 (99 99 99)
Seek Down
CRG-
00 00 00 (99 99 99)
FF
Auto Adjustment
Display Select *3
TRK xx MIN xx SEC xx
Repeat
Jump OFF
TRK xx MIN xx SEC xx
Pause
Focus Close
& TBAL Adjustment
TRK 91 MIN 91 SEC 91
Compression
Power OFF
Scan
T.Close & AGC
Applicable Servo
REW
T.Close
Applicable Servo
Random
RF AGC /Close
RF AGC Factor Display
Seek Up
CRG+
8x 9x 8x 9x 8x 9x
Seek Down
CRG-
8x 9x 8x 9x 8x 9x
FF
T.Balance Adjustment
T.BAL Factor Display
Repeat
Jump OFF
Compression
Power OFF
Scan
F, T, RF AGC
Display Switching *6
Random
F, T, RF AGC /
RF AGC
REW
CRG/TR Jump
Count Select *5
Seek Up
CRG/TR Jump+
*4
Seek Down
CRG/TR Jump-
*4
FF
Tracking Open
8x 9x 8x 9x 8x 9x
Repeat
Jump OFF
Pause
Error Count
Switching *7
Compression
Power OFF
FF
Tracking Open
8x 9x 8x 9x 8x 9x

*1) TYP -> -6dB -> -12dB
TRK MIN SEC TRK 06 MIN 06 SEC 06 TRK 12 MIN 12 SEC 12

*2) Focus Close -> S.Curve -> F EQ measurement setting
TRK 00 MIN 00 SEC 00 (99 99 99) TRK 01 MIN 01 SEC 01 TRK 02 MIN 02 SEC 02

*3) F.Offset Display -> T.Offset Display -> Original display

*4) 1TR /4TR / 10TR / 32TR / 100TR

*5) Single TR -> 4 TR -> 10 TR -> 32 TR -> 100 TR -> CRG Move
9X(8X):91(81) 92(82) 93(83) 94(84) 95(85) 96(86)

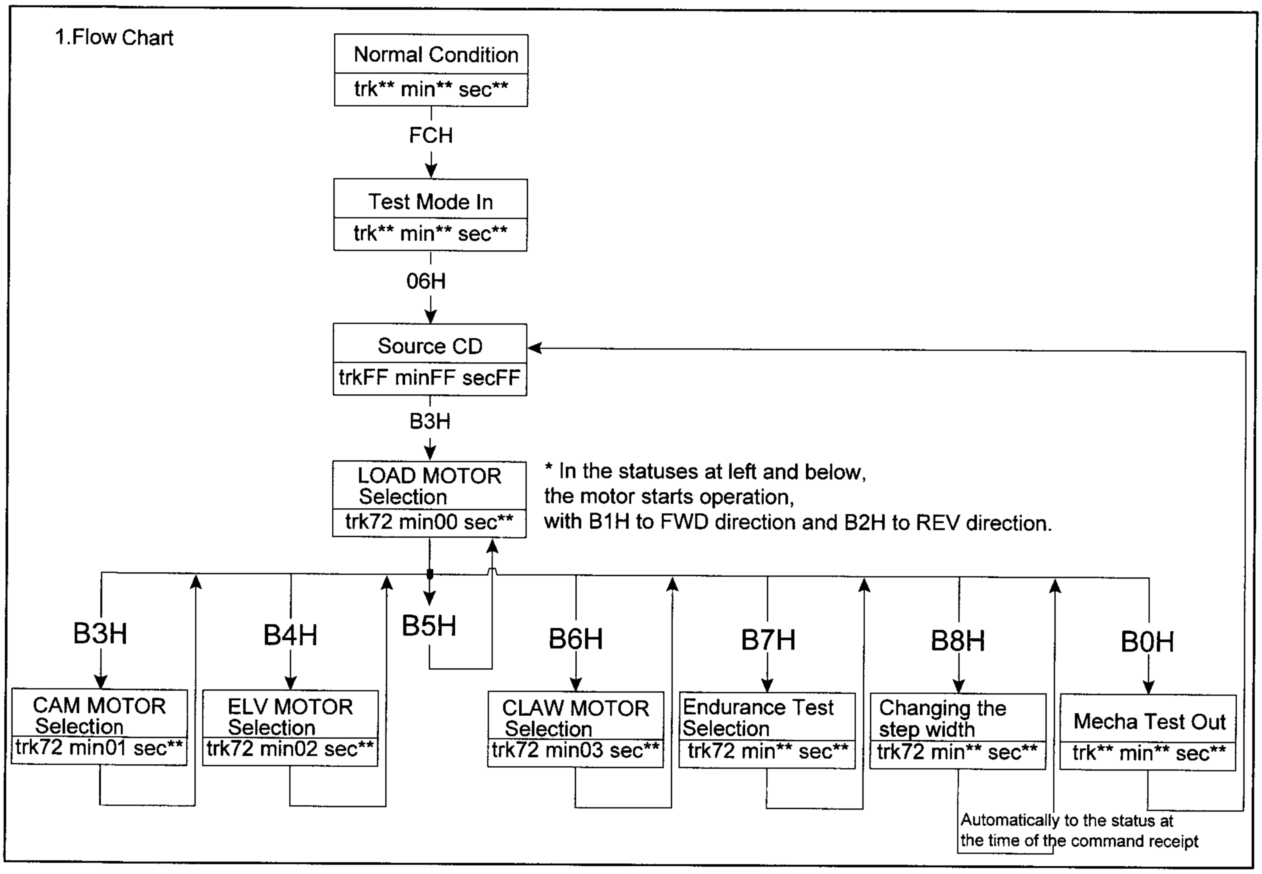
*6) TRK/MIN/SEC -> F.AGC Gain -> T.AGC Gain -> RF AGC Gain

*7) TRK/MIN/SEC -> S.Curve -> C1 error count -> C2 error count
TRK = 0 (Completion of measurement)
TRK ?? MIN ?? SEC ?/ TRK xx MIN FF SEC FF (33→0) TRK xx MIN xx SEC xx TRK xx MIN xx SEC xx
TRK >0 (Between measurement)

Key	Operation Test Mode
Compression	Power ON/OFF
Seek Up	CRG+ / TR Jump+ (Toward outer perimeter)
Seek Down	CRG-/TR Jump- (Toward inner perimeter)
Scan	T.CLS & AGC & Applicable servo / AGC, AGC display switching
FF	RF gain select / Offset adjustment display / T.Balance adjustment / T.Open
Random	F.Close, S.Curve /Rough Servo & RF AGC / F, T, RF AGC
Pause	Error occurrence time Start of Measurement (30s) / Interruption of Measurement (max. 30s) / Display of numbers of C1 & C2 errors (after completion of measurement)
Repeat	Jump OFF
REW	Focus Mode Select / Tracking Close / CRG, TR Jump Select

After pressing the eject key, do not press any other key than [Eject] key, till the disc is ejected.
TR Jump operations except for 100TR Jump continues even after you release the relevant key.
For CRG Move and 100 TR Jump operations, the system goes to the Tracking-Close status, when you release the relevant key.
Upon turning the power Off/ON, the Jump Mode is reset to Single TR(91), and RF AMP Gain setting is reset to 0dB, while the automatic adjusted values goes back to the initial values.
If you are in the middle of measurement, the measurement is terminated.

1.Flow Chart


Normal Condition
trk** min** sec**
FCH
Test Mode In
trk** min** sec**
06H
Source CD
trkFF minFF secFF
B3H
LOAD MOTOR Selection
trk72 min00 sec**
B3H
B4H
B5H
B6H
B7H
B8H
B0H
CAM MOTOR Selection
trk72 min01 sec**
ELV MOTOR Selection
trk72 min02 sec**
CLAW MOTOR Selection
trk72 min03 sec**
Endurance Test Selection
trk72 min** sec**
Changing the step width
trk72 min** sec**
Mecha Test Out
trk** min** sec**
Automatically to the status at the time of the command receipt

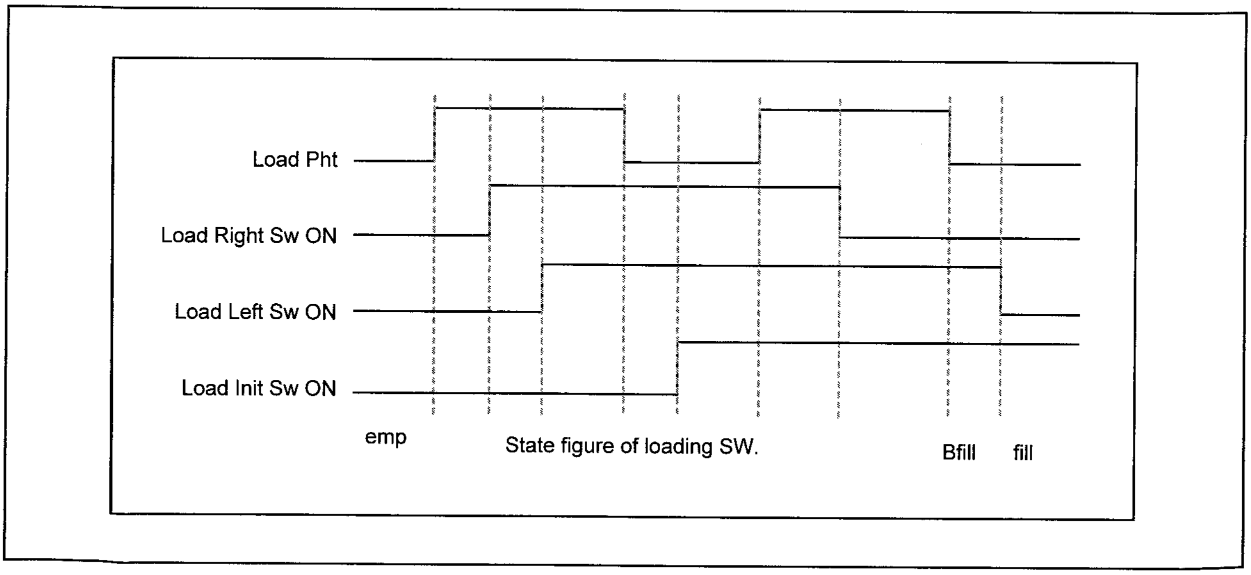
* In the statuses at left and below, the motor starts operation, with B1H to FWD direction and B2H to REV direction.

When a load motor is selected:
1. Before starting the motor, send B5H several times to get "72 00 2".
2. After start-up, the motor stops when any of the switches is changed (It also stops when the time runs out).

Display: REV ←→ FWD
(Temperature Data and Switching)

72 00 28 | 72 00 2E | 72 00 27 | 72 00 2B | 72 00 21

72 00 20 | 72 00 2C | 72 00 26 | 72 00 2F | 72 00 23

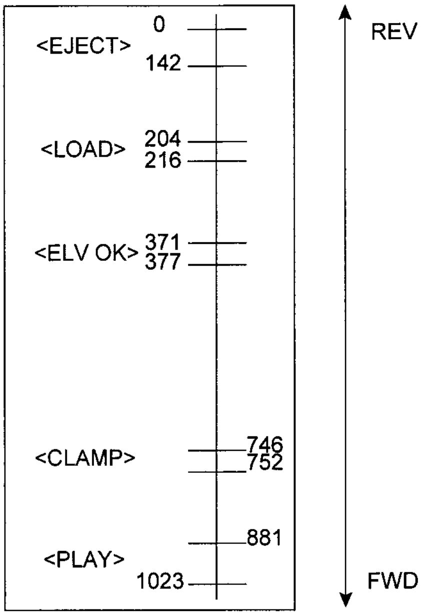

Load Pht
Load Right Sw ON
Load Left Sw ON
Load Init Sw ON
emp
Bfill
fill

State figure of loading SW.

When a cam motor is selected:
1. Before starting the motor, send B3H several times to get "72 01 2*".
2. After start-up, the motor operates till it reaches the status as shown left.
Display:

72 01 20 ⟷ 72 ** **

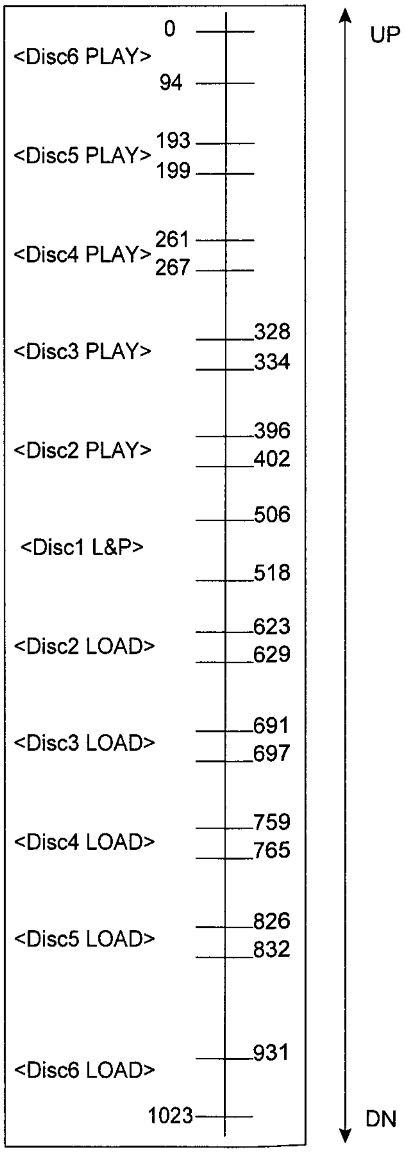
A value in the left chart comes into the "*" part.


<EJECT>
0
142
<LOAD>
204
216
<ELV OK>
371
377
<CLAMP>
746
752
<PLAY>
881
1023
REV
FWD

When a elevation motor is selected:
1. Before starting the motor, send B3H several times to get "72 02 2*".
2. After start-up, the motor operates till it reaches the status as shown left.
Display:

72 02 20 ⟷ 72 ** **

A value in the left chart comes into the "*" part.


<Disc6 PLAY>
0
94
<Disc5 PLAY>
193
199
<Disc4 PLAY>
261
267
<Disc3 PLAY>
328
334
<Disc2 PLAY>
396
402
<Disc1 L&P>
506
518
<Disc2 LOAD>
623
629
<Disc3 LOAD>
691
697
<Disc4 LOAD>
759
765
<Disc5 LOAD>
826
832
<Disc6 LOAD>
931
1023
UP
DN

6.5 ERROR MODE

■Error codes

In the case where the CD is disabled or stopped by error during operation, the mechanism enters the error mode. The causes of errors are given with numbers.

■Error code displaying method

Error codes for the mechanical module consist of four digit numbers. They are displayed by carrying out a specific operation (command) for the product.

■■ ■■ (■ represents a number.)

Error description (upper two digits)

Internal status of the mechanism on occurrence of an error (lower two digits)

The upper two digits indicate the major category and description of an error. The lower two digits indicate the detailed status of internal parts of the mechanism on occurrence of an error.

■ G3 electric system error display

Power system error

Code	Error	Error description, upper (1 and 2 digits)
0xA0	VD power fault	VDSENS error
0xA1	Mechanism reference voltage fault	CAMREF or ELVREF error

■G3 servo-system error display

Servo-system error

Code	Error	Error description, upper (1 and 2 digits)
0x10	Carriage home fault	Carriage does not move to inner radius. Carriage does not move out of the inner radius. Switch fault
0x11	Focus search fault	Correct focus is not obtained.
0x12	Spindle lock or sub-code fault	Spindle is not locked. Sub-code cannot be read.
0x17	Setup fault	AGC protection is disabled. Easy to be out of focus.
0x22	Play is disabled	MP3 file that can be played does not exist.
0x23	(at the time of playing compressed audio)	The audio data is written in a file format
0x30	File format fault (for compressed audio) Search timeout	which is not supported by the mechanism. The target address cannot be reached

■ G3 mechanical error display

Cam error

Code	Error	Error description, upper (1 and 2 digits)
0x50	TRYUP	Forward direction timeout at the time of mechanical operation given in the left column
0x51		Reverse direction timeout at the time of mechanical operation given in the left column
0x52		Overrun/under run at the time of mechanical operation given in the left column
0x53		Failed to access because of pulse drive at the time of mechanical operation given in the left column.
0x54	TRYDN	Forward direction timeout at the time of mechanical operation given in the left column
0x55		Reverse direction timeout at the time of mechanical operation given in the left column
0x56		Overrun at the time of mechanical operation given in the left column
0x57		Failed to access because of pulse drive at the time of mechanical operation given in the left column.
0x58	CRGIN	Forward direction timeout at the time of mechanical operation given in the left column
0x59		Reverse direction timeout at the time of mechanical operation given in the left column
0x5a		Overrun/under run at the time of mechanical operation given in the left column
0x5b		Failed to access because of pulse drive at the time of mechanical operation given in the left column.

Code	Error	Error description, upper (1 and 2 digits)
0x5c	CRGOUT	Forward direction timeout at the time of mechanical operation given in the left column
0x5d		Reverse direction timeout at the time of mechanical operation given in the left column
0x5e		Overrun/under run at the time of mechanical operation given in the left column
0x5f		Failed to access because of pulse drive at the time of mechanical operation given in the left column.
0x60	ELVIN	Forward direction timeout at the time of mechanical operation given in the left column
0x61		Reverse direction timeout at the time of mechanical operation given in the left column
0x62		Overrun at the time of mechanical operation given in the left column
0x63		Failed to access because of pulse drive at the time of mechanical operation given in the left column.
0x64	ELVOUT	Forward direction timeout at the time of mechanical operation given in the left column
0x65		Reverse direction timeout at the time of mechanical operation given in the left column
0x36 or 0x66		Overrun/under run at the time of mechanical operation given in the left column
0x67		Failed to access because of pulse drive at the time of mechanical operation given in the left column.
0x68	PETEYIN	Forward direction timeout at the time of mechanical operation given in the left column
0x69		Reverse direction timeout at the time of mechanical operation given in the left column
0x6a		Overrun/under run at the time of mechanical operation given in the left column
0x6b		Failed to access because of pulse drive at the time of mechanical operation given in the left column.
0x6c	CATCHIN	Forward direction timeout at the time of mechanical operation given in the left column
0x6d		Reverse direction timeout at the time of mechanical operation given in the left column
0x6e		Overrun/under run at the time of mechanical operation given in the left column
0x6f		Failed to access because of pulse drive at the time of mechanical operation given in the left column.
0x70	DOORROPN	Forward direction timeout at the time of mechanical operation given in the left column
0x71		Reverse direction timeout at the time of mechanical operation given in the left column
0x72		Overrun/under run at the time of mechanical operation given in the left column
0x73		Failed to access because of pulse drive at the time of mechanical operation given in the left column.
0x74	DOORCLS	Forward direction timeout at the time of mechanical operation given in the left column
0x75		Reverse direction timeout at the time of mechanical operation given in the left column
0x76		Overrun/under run at the time of mechanical operation given in the left column
0x77		Failed to access because of pulse drive at the time of mechanical operation given in the left column.
0x78	ARMIN	Forward direction timeout at the time of mechanical operation given in the left column
0x79		Reverse direction timeout at the time of mechanical operation given in the left column
0x7a		Overrun/under run at the time of mechanical operation given in the left column
0x7b		Failed to access because of pulse drive at the time of mechanical operation given in the left column.
0x7c	ARMOUT	Forward direction timeout at the time of mechanical operation given in the left column
0x7d		Reverse direction timeout at the time of mechanical operation given in the left column
0x7e		Overrun/under run at the time of mechanical operation given in the left column
0x7f		Failed to access because of pulse drive at the time of mechanical operation given in the left column.

DOORCLS

Code	Error	Error description, upper (1 and 2 digits)
0x80	DOORCLS	Caught disc is detected.
0x81		"H" position of the Load Right switch is detected.
0x82		Load switch chatter cannot be eliminated.

CAMRST error

Code	Error	Error description, upper (1 and 2 digits)
0x91	CAMRST	Error stop position is reached at the time of CAMRST.
0x92		Claw switch chatter cannot be eliminated.
0x93		Claw does not close during CAMRST process.

Claw error

Code	Error	Error description, upper (1 and 2 digits)
0x9a	DSKFREE	Claw does not close during DSKFREE process.
0x9b	DSKLOCK	Claw does not open during DSKLOCK process.
0x9c	CLWCLSE	Claw does not close during CLWCLSE process.
0x9d	CLWOPEN	Claw does not open during CLWOPEN process.

ELV error

Code	Error	Error description, upper (1 and 2 digits)
0xb0	"DISCSEL (Load to Load)"	Timeout occurs before the brake position of the elevator is reached (ascending) at the time of mechanical operation given in the left column.
0xb1		Timeout occurs before the brake position of the elevator is reached (descending) at the time of mechanical operation given in the left column.
0xb2		Overrun/under run error of the elevator at the time of mechanical operation given in the left column.
0xb3		100-time attempts of the elevator pulse driving have failed at the time of mechanical operation given in the left column.
0xb4	"DISCSEL (Load to Play)"	Timeout occurs before the brake position of the elevator is reached (ascending) at the time of mechanical operation given in the left column.
0xb5		Timeout occurs before the brake position of the elevator is reached (descending) at the time of mechanical operation given in the left column.
0xb6		Overrun/under run error of the elevator at the time of mechanical operation given in the left column.
0xb7		100-time attempts of the elevator pulse driving have failed at the time of mechanical operation given in the left column.
0xb8	"DISCSEL (Play to Load)"	Timeout occurs before the brake position of the elevator is reached (ascending) at the time of mechanical operation given in the left column.
0xb9		Timeout occurs before the brake position of the elevator is reached (descending) at the time of mechanical operation given in the left column.
0xba		Overrun/under run error of the elevator at the time of mechanical operation given in the left column.
0xbb		100-time attempts of the elevator pulse driving have failed at the time of mechanical operation given in the left column.
0xbc	"DISCSEL (Play to Play)"	Timeout occurs before the brake position of the elevator is reached (ascending) at the time of mechanical operation given in the left column.
0xbd		Timeout occurs before the brake position of the elevator is reached (descending) at the time of mechanical operation given in the left column.
0xbe		Overrun/under run error of the elevator at the time of mechanical operation given in the left column.
0xbf		100-time attempts of the elevator pulse driving have failed at the time of mechanical operation given in the left column.

*0xb0 to 0xb3 only for the self test under test mode.

Insertion/ejection error

Code	Error	Error description, upper (1 and 2 digits)
0xe0	CAMRST	Door is opened at the time of CAMRST (door opening/closing error).
0xe1	WTLOAD	"Load error (Forced eject -> DOORCLS -> DOOROPN, repeated by five times)"
0xe2	EJCTION	"Eject error(Forced eject -> DOORCLS -> DOOROPN, repeated by five times)"
0xe3	SEJPCK	"SEJPCK error (Forced eject -> DOORCLS -> DOOROPN, repeated by five times)"
0xe4	HLFLOAD	"HLFLOAD error (Forced eject -> DOORCLS -> DOOROPN, repeated by five times)"
0xe5	DINSRDY	"DINSRDY error (Forced eject -> DOORCLS -> DOOROPN, repeated by five times)"
0xe7	RELOAD	"RELOAD error (Forced eject -> DOORCLS -> DOOROPN, repeated by five times)"

Wait for disc draw-out

Code	Error	Error description, upper (1 and 2 digits)
0xc0	CAMRST	CAMRST -> Forced eject -> Wait for disc draw-out
0xc1	WTLOAD	WTLOAD -> Forced eject -> Wait for disc draw-out
0xc2	EJCTON	EJCTON -> Forced eject -> Wait for disc draw-out
0xc3	SEJPCK	SEJPCK -> Forced eject -> Wait for disc draw-out
0xc4	HLFLOAD	HLFLOAD -> Forced eject -> Wait for disc draw-out
0xc5	DINSRDY	DINSRDY -> Forced eject -> Wait for disc draw-out
0xc6	DOORCLS	DOORCLS -> DOOROPN -> Forced eject -> Wait for disc draw-out
0xc7	RELOAD	RELOAD -> Forced eject -> Wait for disc draw-out

Other special errors

Code	Error	Error description, upper (1 and 2 digits)
0xf0	SELFTST	H/L of the Load switch cannot be detected during a self test.
0xf2	EJCTON	Disc cannot be ejected. The mechanism stops with the disc sucked.

■G3 new test mode error display

New test mode error

Code	Error	Error description, upper (1 and 2 digits)
0x40	Focus search fault	RFOK=LOW continued for 100 msec.
0x41	Spindle lock fault	LOCK=LOW continued for 100 msec.
0x42	Sub-code fault	Sub-code cannot be read for 500 msec.

6.6 TEST DISC

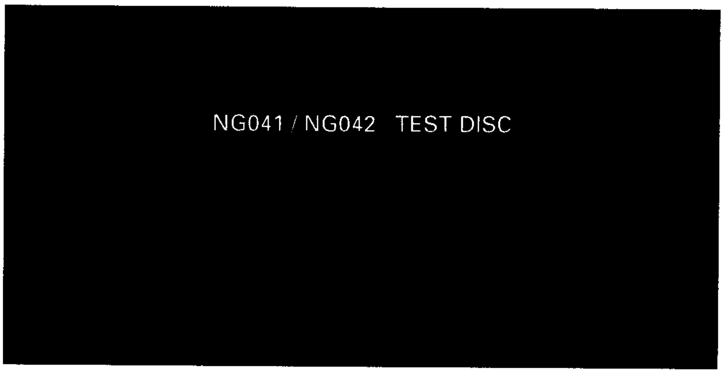
1. Starting and Exiting

TEST DISC : GGV1240

1-1. Starting

After inserting the test disc, the title "NG041/NG042 TEST DISC" appears.
When pressing the DEST key while the title is displayed, the menu screen appears.
If no keys are pressed, the initial screen of the line inspection screen appears.

Title screen



NG041 / NG042 TEST DISC

1-2. Exiting

With "3-11. Ejecting of a disc," the test disc is exited. (Refer to 3-11. Ejecting of a disc.)

2. Key Operations

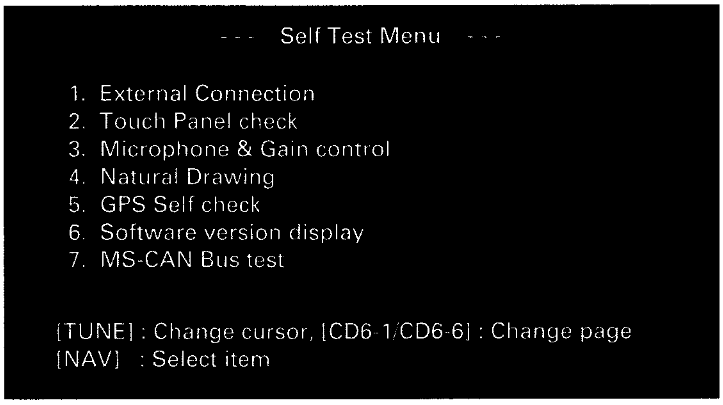
- Line inspection screen
  1. Switch the inspection screen and the menu screen with the NAV key on the main unit. (Except for "3-11. Ejecting of a disc")
  2. Move to the previous inspection screen with the TUNE up key on the main unit.
  3. Move to the next inspection screen with the TUNE down key on the main unit. (It does not move unless an inspection is completed. It does not move also when there are invalid items.)
     * When "Device Memory All Clear" is performed and the system ends normally, with the TUNE down key on the main unit, the confirmation screen of disc ejection is displayed.
  4. With the CD6-1/CD6-6 key on the main unit, pages of the menu screen can be changed over. (However, only when the menu screen is displayed.)

  * For details, refer to the description of each screen.

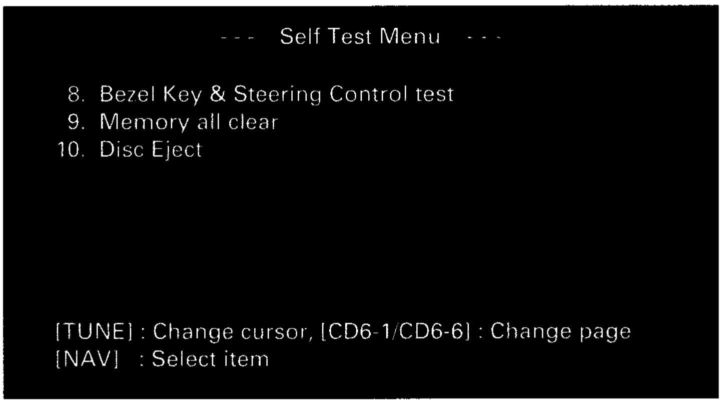
- Menu screen for service

  * Up to "4-11 Ejecting of a disc" the operation is the same for the line inspection.
  1. Select an inspection item with the TUNE up/TUNE down key on the main unit, and enter the inspection screen with the NAV key.
  2. Return to the menu screen with the DEST key on the main unit.
  3. With the CD6-1/CD6-6 key on the main unit, pages of the menu screen can be changed over. (However, only when the menu screen is displayed.)

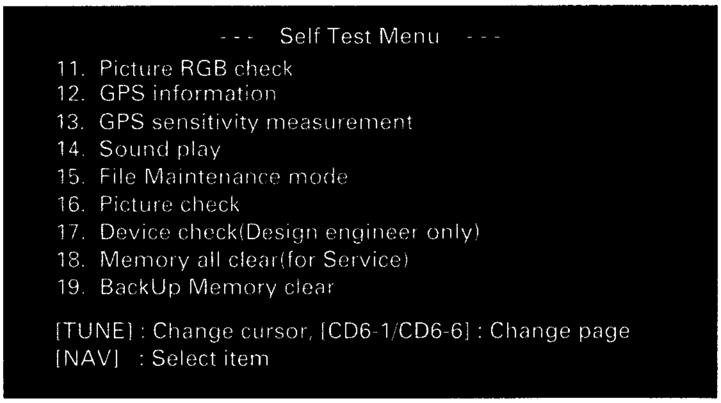
  * For details, refer to the description of each screen.



```
--- Self Test Menu ---

 1. External Connection
 2. Touch Panel check
 3. Microphone & Gain control
 4. Natural Drawing
 5. GPS Self check
 6. Software version display
 7. MS-CAN Bus test


[TUNE] : Change cursor, [CD6-1/CD6-6] : Change page
[NAV]  : Select item
```



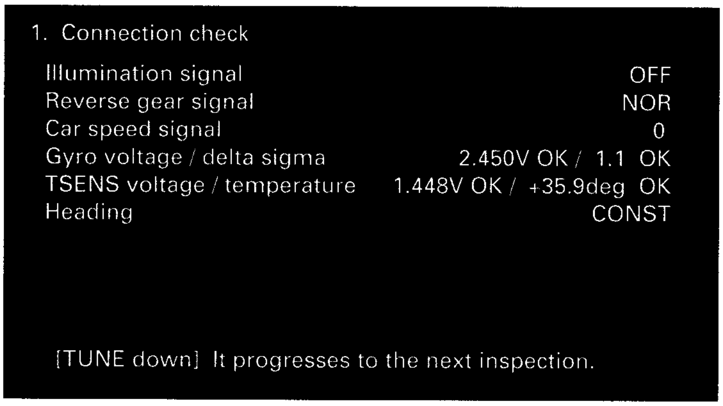
```
--- Self Test Menu ---

 8. Bezel Key & Steering Control test
 9. Memory all clear
10. Disc Eject


[TUNE] : Change cursor, [CD6-1/CD6-6] : Change page
[NAV]  : Select item
```



```
--- Self Test Menu ---
11. Picture RGB check
12. GPS information
13. GPS sensitivity measurement
14. Sound play
15. File Maintenance mode
16. Picture check
17. Device check(Design engineer only)
18. Memory all clear(for Service)
19. BackUp Memory clear

[TUNE] : Change cursor, [CD6-1/CD6-6] : Change page
[NAV]  : Select item
```

3. Inspection Screen

3-1. External connection inspection



```
1. Connection check
  Illumination signal                                   OFF
  Reverse gear signal                                   NOR
  Car speed signal                                        0
  Gyro voltage / delta sigma         2.450V OK /  1.1  OK
  TSENS voltage / temperature   1.448V OK / +35.9deg  OK
  Heading                                             CONST

  [TUNE down]  It progresses to the next inspection.
```

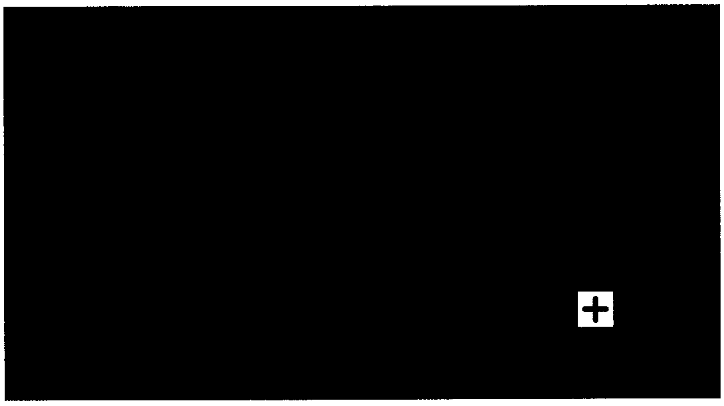
- The status of the item shown in the above figure is updated approximately every 0.5 seconds.
- A beep sound is output when the gyro is operated.
  Right : 500 Hz, Left : 700 Hz
- Transition conditions to the next inspection :
  - The status of the illumination is changed ON and OFF.
  - The status of reverse is changed NOR and REV.
  - The value of the pulse changes to other than 0/0.
  - The value of the gyro changes to right and left at least once for each.
    * Until it changes at least once for each, "-" is displayed even when it is OK.
    (ex.) When the orientation status is left rotation level 1, it is displayed as below.
    Heading Left </ Right
  - After the value of the gyro changes to right and left at least once for each, the dispersion of the gyro is OK for five consecutive seconds or longer.
    * "CHK" is displayed during continuous inspections.
  - The voltage of the gyro, and the voltage and temperature of the temperature sensor are OK.
- Only when all the conditions are satisfied, you can proceed to the next inspection with the TUNE down key on the main unit.
  However, even when the conditions are satisfied, if an error occurs (background color is red), you cannot proceed to the next inspection.

Note : Although described as "DRAGON" in the display message, the GPS unit of this model loading is "GIDRA."

< Supplemental to error display >

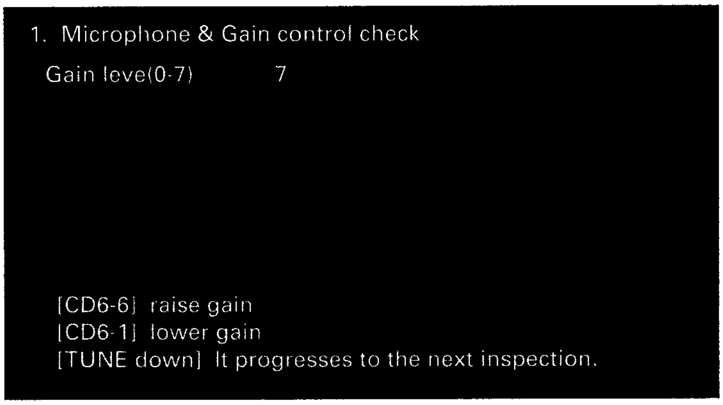
Display message	Description of error
Structure data error	• Error occurring when data cannot be received from the AD converter. • Device error of the AD converter is suspected. • It also occurs when vehicle speed pulse cannot be measured (very rare).
DRAGON unconnected	• Error occurring when communication with DRAGON(GIDRA) cannot be established. • Communication interruption due to hardware error is suspected. • Hardware error on the DRAGON(GIDRA) side is quite likely.
Command error	• Time out error of response to BIOS call. • Communication interruption due to hardware error is suspected. • Hardware error on the GIDRA side is quite likely.
Unknown error	• Error of unknown cause

3-2. Touch panel inspection



- The touch panel check is implemented for 9 points.
- When the coordinates acquired while pressing the white point (70 ms x 5 times) is within the effective area, it is OK and the next white point is displayed.
- When the acquired coordinates are out of the effective area, the check is NG.
  Size of displayed button: W:12/H:12
  Effective area: within the displayed button area
- When the all 9 points are OK, the check is OK.
- After displaying the white point, when no coordinate is acquired after ten seconds, the check is NG.
- Only when the check is OK, go to the next check with [TUNE down] key of main unit.
  Note: As we change the setting so that pressing on the white point (70 ms x 5 times) can be justified while keeping pressing the touch panel, do not touch the key other than [NAV] key (return to the menu) on the main unit during the check (the timeout time and judgment time of touch panel cannot be kept).

3-3. Speech microphone line inspection



1. Microphone & Gain control check

Gain leve(0-7) 7

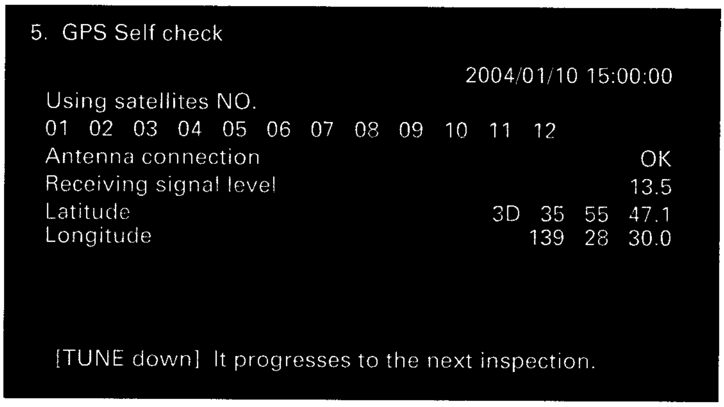
[CD6-6] raise gain
[CD6-1] lower gain
[TUNE down] It progresses to the next inspection.

- Set the GUIDEON terminal to H when entering the screen, and set it to L when exiting the screen.
- Sound path
  The signal is connected in the order of MICIN → ADCINR → inside ASIC → DACOUTR → SP line.
- Operation (Device keys)
- [CD6-1] : decreases the microphone input gain (PROGGAIN0-2).
- [CD6-6] : increase the microphone input gain (PROGGAIN0-2).
- [TUNE down] : proceeds to the next inspection.

3-4. Natural images

- 256-color natural images are depicted on the BG screen.
- ADPCM 1kHz sine wave of sampling rate 19kHz is output for 30 seconds.
- Set the GUIDEON terminal to H when entering the screen, and set it to L when exiting the screen.
- The sound volume can be changed with VOL +/- rotary.
  [JPEG file name: ZHITO1.JPEG] [Sound file name: A19K01KS.WAV]
- Only when the inspection is pass, you can proceed to the next inspection with the TUNE down key on the main unit.

3-5. GPS Reception



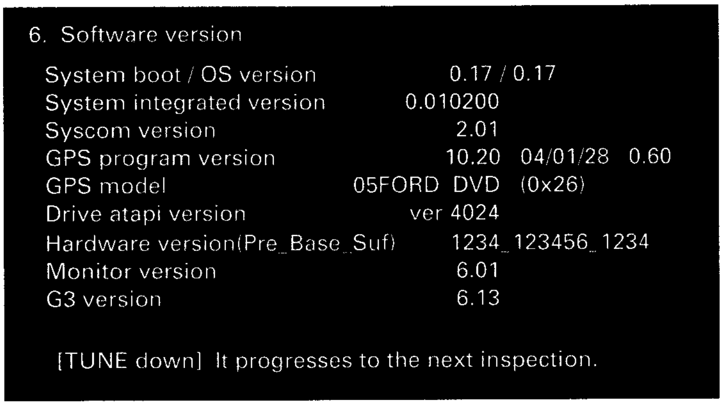
```
5. GPS Self check

                                         2004/01/10 15:00:00
 Using satellites NO.
 01  02  03  04  05  06  07  08  09  10  11  12
 Antenna connection                                      OK
 Receiving signal level                                13.5
 Latitude                                  3D  35  55  47.1
 Longitude                                    139  28  30.0



  [TUNE down] It progresses to the next inspection.
```

- The status of GPS reception is displayed.
- Transition conditions to the next inspection :
  - Antenna connection is OK.
  - Data can be obtained from at least one satellite.
  - Time is displayed.
- When all the conditions are satisfied, the background color turns to blue.
- Only when all the conditions are satisfied, you can proceed to the next inspection with the TUNE down key on the main unit. However, even when the conditions are satisfied, if an error occurs (background color is red), you cannot proceed to the next inspection.

< Supplemental to error display >

Display message	Description of error
DRAGON unconnected	• Error occurring when communication with DRAGON(GIDRA) cannot be established. • Communication interruption due to hardware error is suspected. • Hardware error on the DRAGON(GIDRA) side is quite likely.
Command error	• Time out error of response to BIOS call. • Communication interruption due to hardware error is suspected. • Hardware error on the DRAGON(GIDRA) side is quite likely.
Data invalid	• Error occurring when a request is made while response data are not ready (not obtained from DRAGON(GIDRA)). • Communication interruption due to hardware error is suspected. • Hardware error on the DRAGON(GIDRA) side is quite likely.

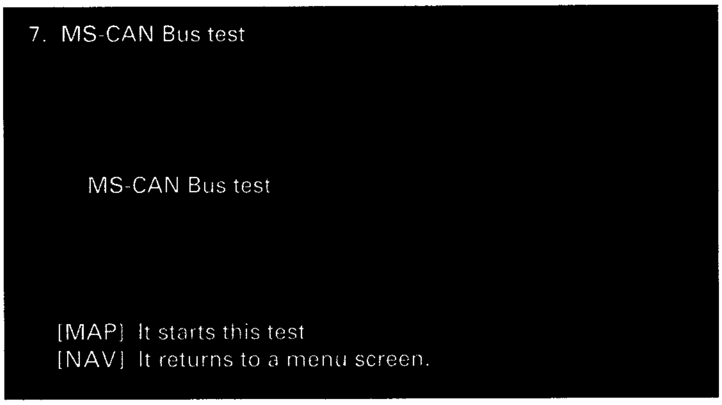
3-6. Software version display



```
6. Software version

  System boot / OS version           0.17 / 0.17
  System integrated version       0.010200
  Syscom version                      2.01
  GPS program version                10.20  04/01/28  0.60
  GPS model                   05FORD  DVD  (0x26)
  Drive atapi version             ver 4024
  Hardware version(Pre_Base_Suf)     1234_123456_1234
  Monitor version                     6.01
  G3 version                          6.13

    [TUNE down]  It progresses to the next inspection.
```

- The version of the software is displayed.
- “For GPS model” is pass when “05FORD DVD” is displayed.
- When “For GPS model” is pass, you can proceed to the next inspection with the TUNE down key on the main unit.
- The versions below are obtained through communication with the system micro computer, and are displayed as they are obtained.
  (-- : obtaining, NG : failure)
  - Hardware, monitor, and G3

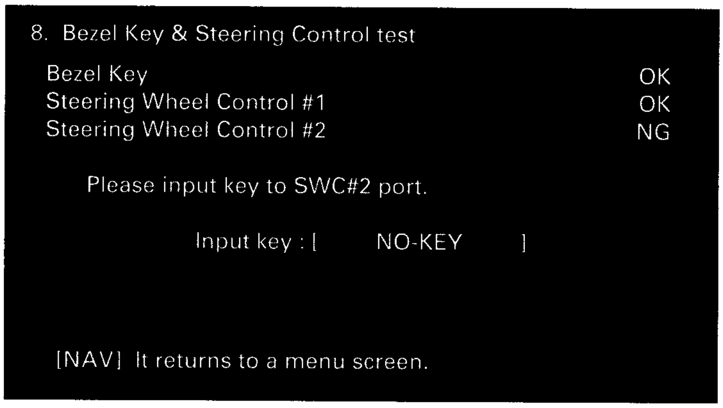
3-7. MS-CAN Bus inspection



```
7. MS-CAN Bus test



        MS-CAN Bus test



    [MAP]  It starts this test
    [NAV]  It returns to a menu screen.
```

- The MS-CAN Bus inspection is started with the MAP key on the main unit.
- Only when it is pass, you can proceed to the next inspection with the TUNE down on the main unit.
  Pass: FES (Family Entertainment System) is connected, and the version was obtained normally.

3-8. Bezel and steering key inspection



8. Bezel Key & Steering Control test

Bezel Key	OK
Steering Wheel Control #1	OK
Steering Wheel Control #2	NG

Please input key to SWC#2 port.

Input key : [NO-KEY]

[NAV] It returns to a menu screen.

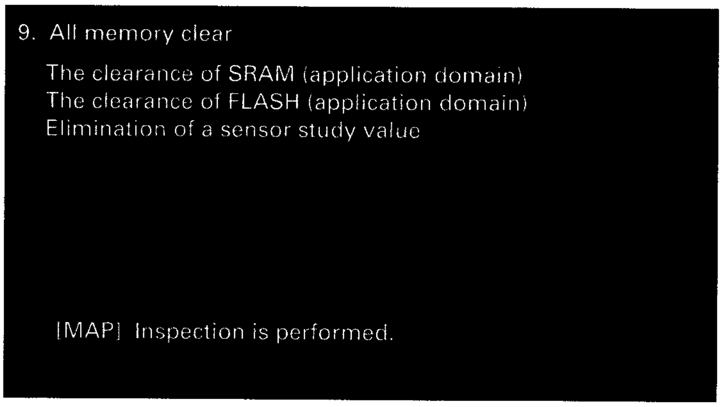
- First, perform the bezel key inspection.
- When the bezel key inspection is pass, the steering key inspection is started.
- In the steering key inspection, focus is changed with the TUNE up/down key on the main unit.
- Only when it is pass, you can proceed to the next inspection with the TUNE down key on the main unit.
- The conditions for pass :
  - All of the following keys on the main unit have been pressed at least once :
    MEDIA, SOUND, MUTE, MENU, SEEK up/down, MAP, DEST, REPEAT, TUNE up/down, CD6-1/2/3/4/5/6, POWER, LOAD, EJECT
  - With the steering key 1 focused, any of the following steering keys is entered from the SWC1 port.
  - With the steering key 2 focused, any of the following steering keys is entered from the SWC2 port.
    ✻ Steering keys :
    NEXT / PREVIOUS / MEDIA / VOL up/down / VOICE / SEND / REPEAT / END / MAP / MUTE

< Notes >

Since the steering keys that can be entered depend on configuration settings, determination will be made from every steering key.

However, because it is not determined from the navigation side from which port the key is entered, ensure that keys are entered from the focused port.

3-9. Device memory all clear



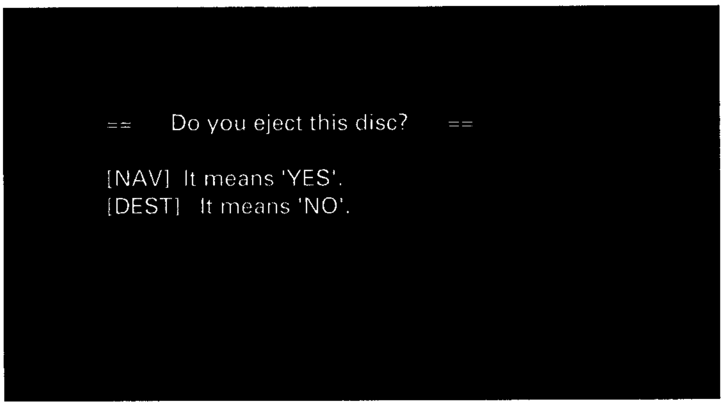
9. All memory clear

The clearance of SRAM (application domain)
The clearance of FLASH (application domain)
Elimination of a sensor study value

[MAP] Inspection is performed.

- SRAM (application area) is cleared.
- FLASH (application area) is cleared.
  ✻ If SRAM clear is fail, FLASH is not cleared.
- Sensor study value is eliminated.
- After the inspection screen is displayed, the above processes are performed with the MAP key on the main unit.
- The results are displayed.
- If everything is pass, a manufacturing technology inspection is performed with the TUNE down key on the main unit, and the confirmation screen of disc eject is displayed.

3-10. Ejecting of a disc



== Do you eject this disc? ==

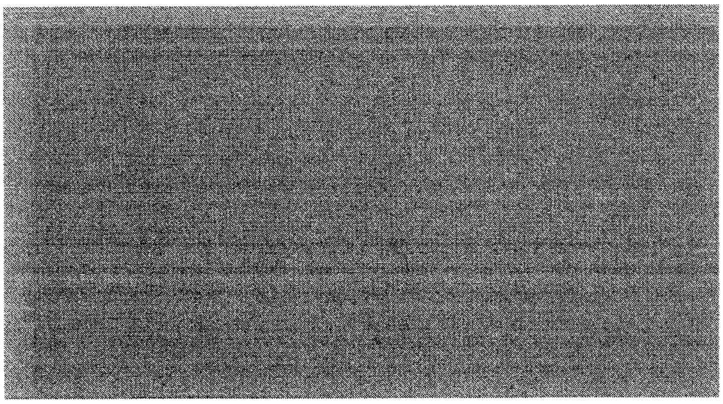
[NAV] It means 'YES'.
[DEST] It means 'NO'.

- The confirmation screen whether to eject the disc appears.
- Open the flap with the NAV key on the main unit, and eject the disc.
- Return to the menu with the DEST key on the main unit.

4. Other screens

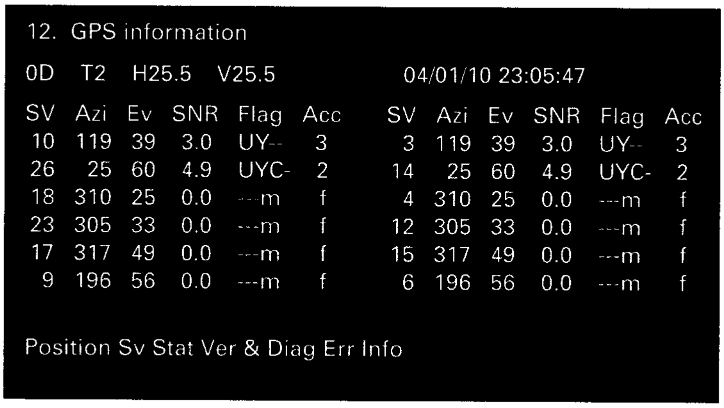
4-1 to 4-10 are performed the same as the line inspection.
Also, eject the disc in 4-10.

4-11. Image RGB



- Perform the bridge inspection of RGB.
- Change over the screen with the CD6-1 and CD6-6 keys on the main unit.
- RGB is depicted in the pattern of
  R 100% → R 50% → G 100% → G 50% → B 100% → B 50%
- In total, six screens are displayed.

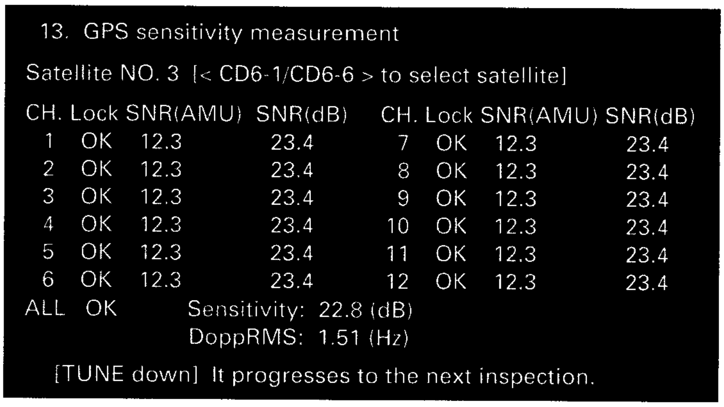
4-12. GPS information



```
12.  GPS information

0D   T2   H25.5   V25.5                04/01/10 23:05:47

SV  Azi  Ev  SNR  Flag  Acc       SV  Azi  Ev  SNR  Flag  Acc
10  119  39  3.0  UY--   3         3  119  39  3.0  UY--   3
26   25  60  4.9  UYC-   2        14   25  60  4.9  UYC-   2
18  310  25  0.0  ---m   f         4  310  25  0.0  ---m   f
23  305  33  0.0  ---m   f        12  305  33  0.0  ---m   f
17  317  49  0.0  ---m   f        15  317  49  0.0  ---m   f
 9  196  56  0.0  ---m   f         6  196  56  0.0  ---m   f


Position Sv Stat Ver & Diag Err Info
```

- Change over the information to display with the CD6-1 and CD6-6 keys on the main unit.
- With the cursor at the position of “Position,” press the NAV key on the main unit, and the “Position information” is displayed.
- With the cursor at the position of “SV Stat,” press the NAV key on the main unit, and the “Status information” is displayed.
- With the cursor at the position of “Ver & Diag,” press the NAV key on the main unit, and the “Diag information” is displayed.
- With the cursor at the position of “Err Info,” press the NAV key on the main unit, and the “Error information” is displayed.
- When performing the inspection, the “Status information” screen (the screen above) is displayed at first.

4-13. GPS sensitivity measurement



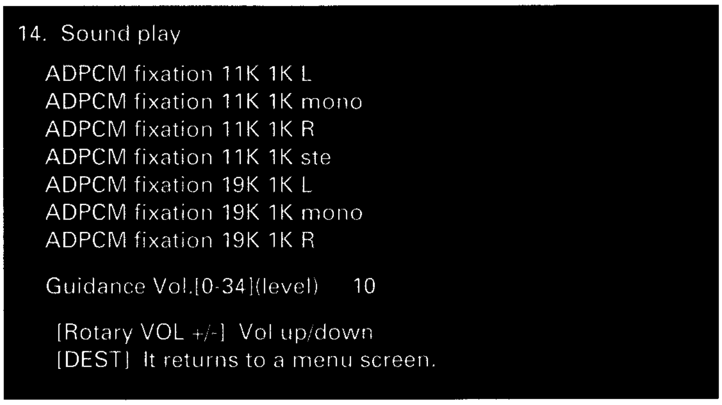
```
13.  GPS sensitivity measurement

Satellite NO. 3  [< CD6-1/CD6-6 > to select satellite]

CH. Lock SNR(AMU)  SNR(dB)     CH. Lock SNR(AMU) SNR(dB)
 1   OK   12.3       23.4       7   OK   12.3      23.4
 2   OK   12.3       23.4       8   OK   12.3      23.4
 3   OK   12.3       23.4       9   OK   12.3      23.4
 4   OK   12.3       23.4      10   OK   12.3      23.4
 5   OK   12.3       23.4      11   OK   12.3      23.4
 6   OK   12.3       23.4      12   OK   12.3      23.4
ALL  OK        Sensitivity: 22.8 (dB)
               DoppRMS: 1.51 (Hz)
  [TUNE down] It progresses to the next inspection.
```

- GPS satellite No. is changed with the CD6-1 and CD6-6 keys on the main unit.
- The sensitivity of GPS selected with the MAP key on the main unit is displayed.
- Only when it is pass, you can proceed to the next inspection with the TUNE down on the main unit.

< Supplemental to error display >

Display message	Description of error
DRAGON unconnected	• Error occurring when communication with DRAGON(GIDRA) cannot be established. • Communication interruption due to hardware error is suspected. • Hardware error on the DRAGON(GIDRA) side is quite likely.
Command error	• Time out error of response to BIOS call. • Communication interruption due to hardware error is suspected. • Hardware error on the DRAGON(GIDRA) side is quite likely.

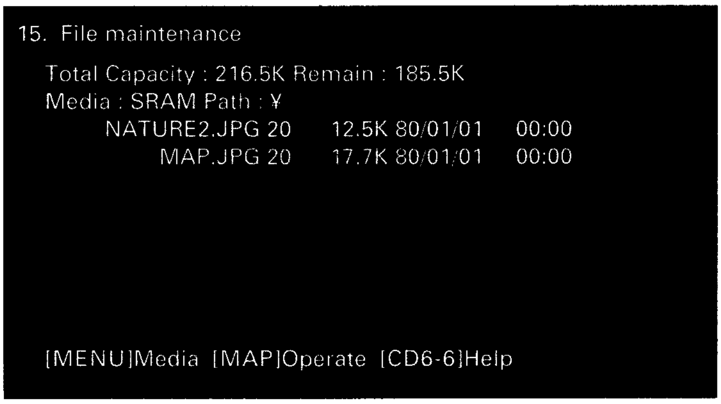
4-14. Sound play



```
14. Sound play
  ADPCM fixation 11K 1K L
  ADPCM fixation 11K 1K mono
  ADPCM fixation 11K 1K R
  ADPCM fixation 11K 1K ste
  ADPCM fixation 19K 1K L
  ADPCM fixation 19K 1K mono
  ADPCM fixation 19K 1K R

  Guidance Vol.[0-34](level)   10

   [Rotary VOL +/-] Vol up/down
   [DEST] It returns to a menu screen.
```

- Play sound files (WAVE format).
- Set the GUIDEON terminal to H when entering the screen, and set it to L when exiting the screen.
- The sound selected with the NAV key on the main unit is played.
- The sound volume can be changed with the VOL +/- rotary.

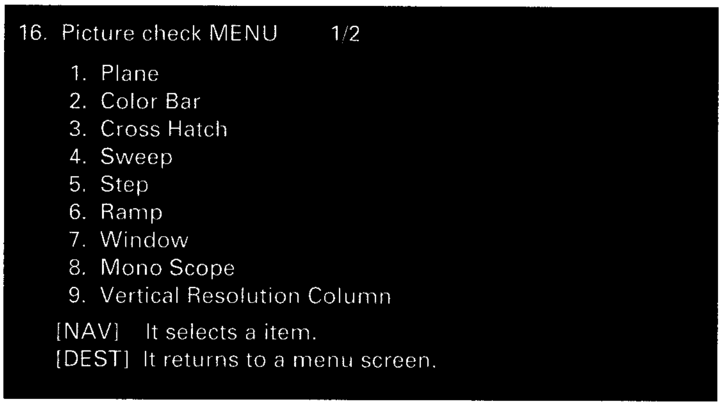
4-15. File maintenance



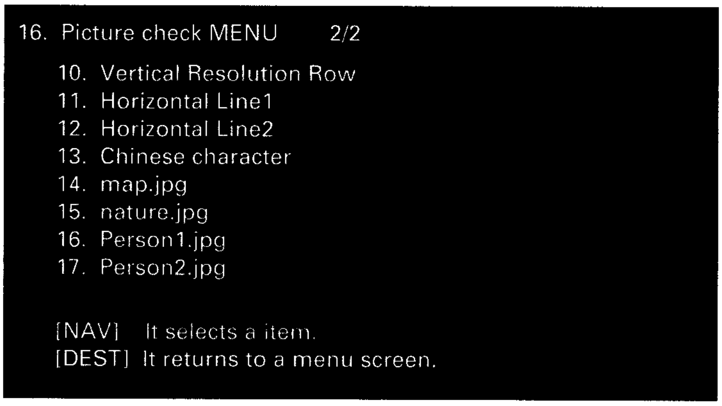
```
15. File maintenance
  Total Capacity : 216.5K Remain : 185.5K
  Media : SRAM Path : ¥
          NATURE2.JPG 20     12.5K 80/01/01    00:00
              MAP.JPG 20     17.7K 80/01/01    00:00





  [MENU]Media  [MAP]Operate  [CD6-6]Help
```

- Files can be copied, deleted, and dumped.
  For how to use each function, refer to HELP.
- When performing the inspection, a file in SRAM (the screen above) is displayed at first.

4-16. Picture check



```
16. Picture check MENU      1/2

    1. Plane
    2. Color Bar
    3. Cross Hatch
    4. Sweep
    5. Step
    6. Ramp
    7. Window
    8. Mono Scope
    9. Vertical Resolution Column

   [NAV]   It selects a item.
   [DEST]  It returns to a menu screen.
```

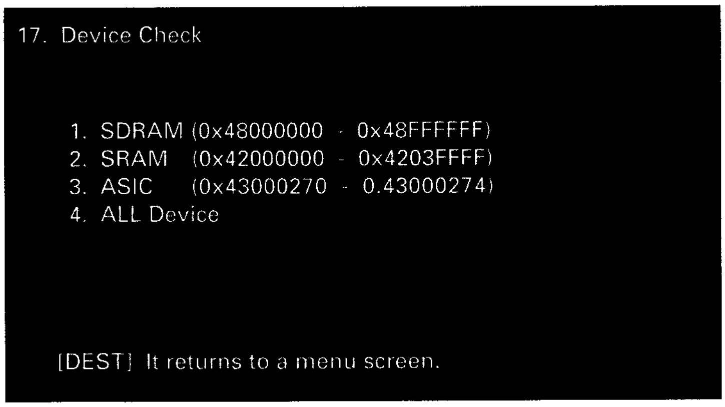


```
16. Picture check MENU      2/2

   10. Vertical Resolution Row
   11. Horizontal Line1
   12. Horizontal Line2
   13. Chinese character
   14. map.jpg
   15. nature.jpg
   16. Person1.jpg
   17. Person2.jpg


   [NAV]   It selects a item.
   [DEST]  It returns to a menu screen.
```

- Make selections with the TUNE up/down key on the main unit, and display pictures with the NAV key.

1. Plain
   ••• With the CD6-1 and CD 6-6 keys on the main unit, the colors are displayed in the order of black, blue, red, pink, green, light blue, yellow and white.
2. Color bar
   ••• A bar in, from left to right, white, yellow, light blue, green, pink, red, blue, and black is displayed.
3. Cross hatch
4. Sweep
5. Step
6. Ramp
7. Window
8. Mono scope
9. Circulation line 1
10. Circulation line 2
11. Horizontal stripe 1
12. Horizontal stripe 2
13. Chinese character patterns
14. Map (map.jpg)
15. Natural image (nature.jpg)
16. Person image 1 (hito1.jpg)
17. Person image 2 (hito2.jpg)

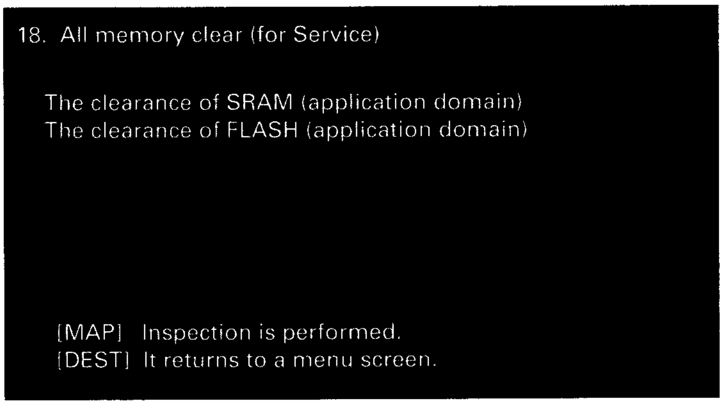
4-17. Device check (only for engineering)



```
17. Device Check


    1. SDRAM (0x48000000 - 0x48FFFFFF)
    2. SRAM  (0x42000000 - 0x4203FFFF)
    3. ASIC  (0x43000270 - 0.43000274)
    4. ALL Device




   [DEST] It returns to a menu screen.
```

- The device inspection above is performed only for engineering.
- (Device selection)
  Select a device with the TUNE up/down key on the main unit, and decide with the NAV key.
- (Pattern selection)
  Select a pattern with the TUNE up/down key on the main unit, and start the inspection with the NAV key.
  ＊ Only when ASIC is selected, the bit shift pattern can be selected.
  Return to the device selection screen with the DEST key on the main unit.
- (During the inspection)
  Stop the inspection with the DEST key on the main unit, and return to the device selection screen.

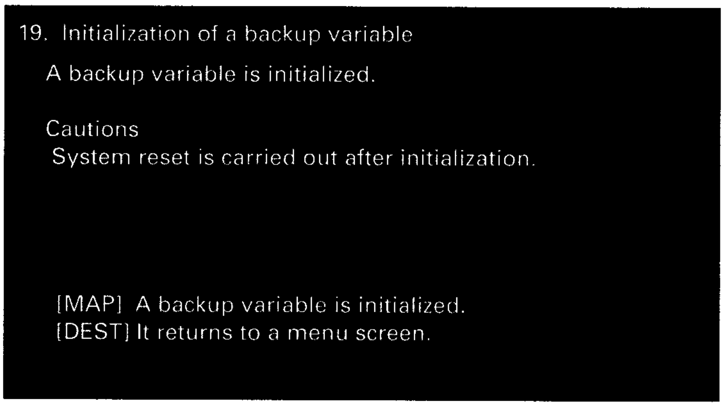
4-18. Main unit memory all clear (Service)



```
18. All memory clear (for Service)

   The clearance of SRAM (application domain)
   The clearance of FLASH (application domain)






    [MAP]  Inspection is performed.
    [DEST] It returns to a menu screen.
```

- SRAM (application area) is cleared.
- FLASH (application area) is cleared.
  ＊ If SRAM clear is fail, FLASH is not cleared.
- After the inspection screen is displayed, the above processes are performed with the MAP key on the main unit.
- The results are displayed.

4-19. Initialization of a backup variable



19. Initialization of a backup variable

A backup variable is initialized.

Cautions

System reset is carried out after initialization.

[MAP] A backup variable is initialized.

[DEST] It returns to a menu screen.

- Initialize the backup variables with the MAP key on the main unit, and reset the system.
- Return to the menu screen with the DEST key on the main unit.

6.7 EMC TEST MODE

1. Start and End

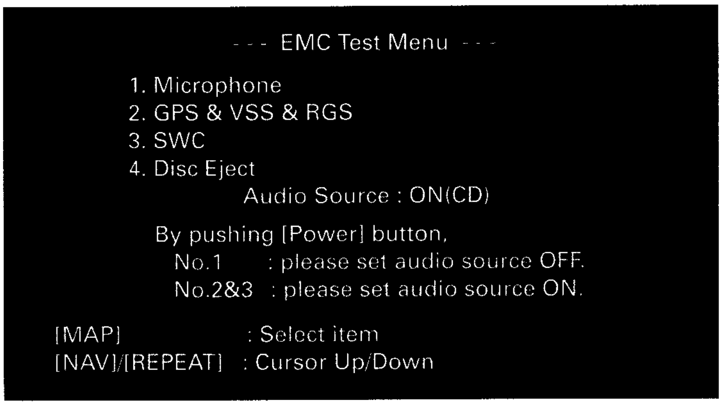
1-1. Start
When the Test Disc is inserted, the MENU is displayed.

1-2. End
The Test Disc is ended by "3-4. Disc Ejection."
(See 3-4. Disc Ejection)

2. Key Operations

- POWER key on the units switches Audio Source ON/OFF.
- MEDIA key on the unit switches Audio source modes.
- VOL +/- rotary button on the unit changes volume.
- MAP key on the unit displayes the test screen.
- The NAV/REPEAT key on the unit moves the cursor up and down.

MENU



--- EMC Test Menu ---

1. Microphone
2. GPS & VSS & RGS
3. SWC
4. Disc Eject

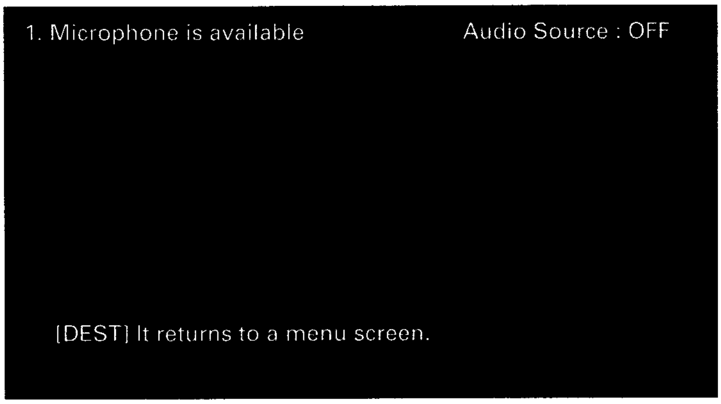
Audio Source : ON(CD)

By pushing [Power] button,
No.1 : please set audio source OFF.
No.2&3 : please set audio source ON.

[MAP] : Select item
[NAV]/[REPEAT] : Cursor Up/Down

3. Test Screen

3-1. MIC Through Test

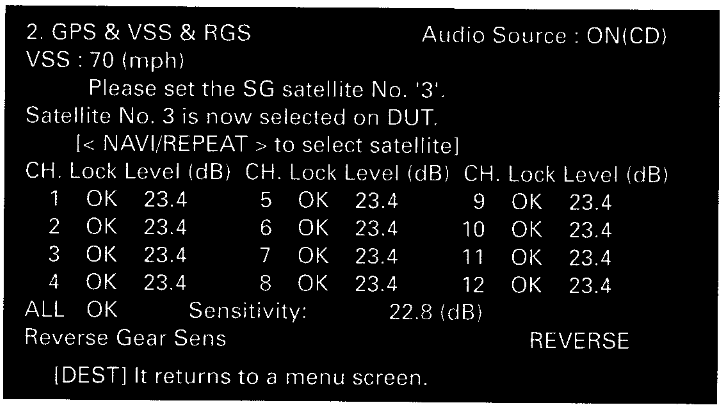


1. Microphone is available Audio Source : OFF

[DEST] It returns to a menu screen.

- This test is run with Audio Source OFF.
  *If the message "By pushing [Power] button, please set audio source OFF" appears, please set Audio Source to OFF.
- Operation (by using the keys on Popeye.)
  POWER: switches Audio Source ON/OFF.
  MEDIA: switches Audio Source modes.
  DEST: ends the test and displays the MENU screen.

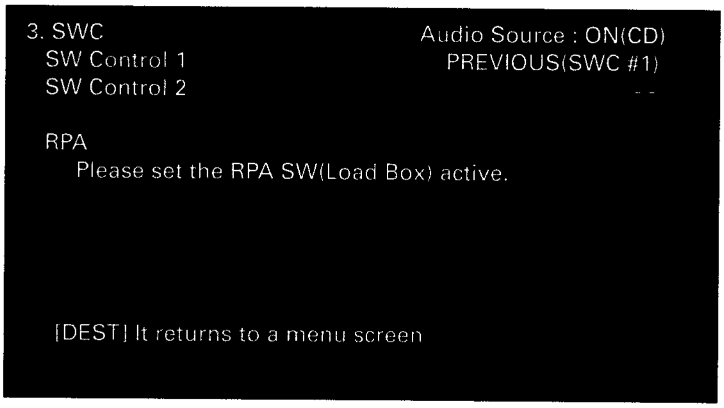
3-2. GPS & VSS & RGS Test



```
2. GPS & VSS & RGS                          Audio Source : ON(CD)
VSS : 70 (mph)
      Please set the SG satellite No. '3'.
Satellite No. 3 is now selected on DUT.
     [< NAVI/REPEAT > to select satellite]
CH. Lock Level (dB)  CH. Lock Level (dB)  CH. Lock Level (dB)
  1   OK   23.4        5   OK   23.4        9   OK   23.4
  2   OK   23.4        6   OK   23.4       10   OK   23.4
  3   OK   23.4        7   OK   23.4       11   OK   23.4
  4   OK   23.4        8   OK   23.4       12   OK   23.4
ALL   OK        Sensitivity:        22.8 (dB)
Reverse Gear Sens                                REVERSE
   [DEST] It returns to a menu screen.
```

- This test is run with Audio Source ON.
- The state of RGS is displayed as NORMAL/REVERSE.
- Operation (by using the keys on Popeye.)
  POWER: switches Audio Source ON/OFF.
  MEDIA: switches Audio Source modes.
  VOL+/-: changes volume.
  NAV/REPEAT: Changes GPS.
  MAP: displays a sensitivity level of the selected GPS.
  DEST: ends the test and displays the MENU screen.

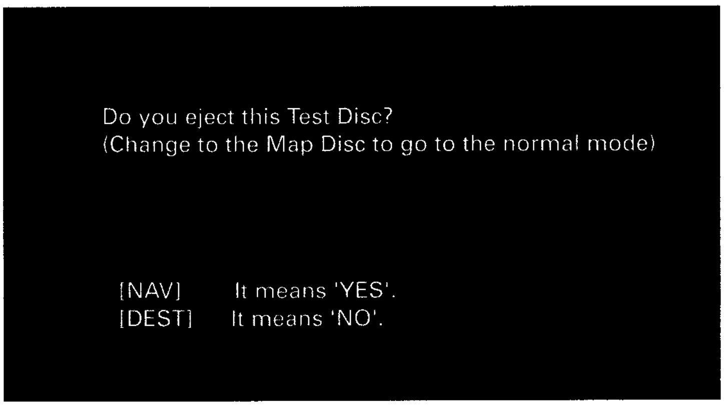
3-3. SWC Test



```
3. SWC                                    Audio Source : ON(CD)
  SW Control 1                              PREVIOUS(SWC #1)
  SW Control 2                                            --

  RPA
     Please set the RPA SW(Load Box) active.




   [DEST] It returns to a menu screen
```

- This test is performed with Audio Source ON.
- The state of each item on the screen is updated approximately every second.
- When a steering key on the steering wheel is pushed down,
  the names of the appropriate keys appears on the screen.
  *If no key is pressed, NO-KEY is displayed
  and if a different key from the key displayed on the screen is pressed, -- is displayed.
  SW Control 1: NEXT / PREVIOUS / MEDIA / VOL up / down / MUTE
  SW Control 2: VOICE / SEND / REPEAT / END / MAP
- Operation (by using the keys on Popeye.)
  POWER: switches Audio Source ON/OFF.
  MEDIA: switches Audio Source modes.
  VOL+/-: changes volume.
  DEST: ends the test and displays the MENU screen.

3-4. Disc Ejection



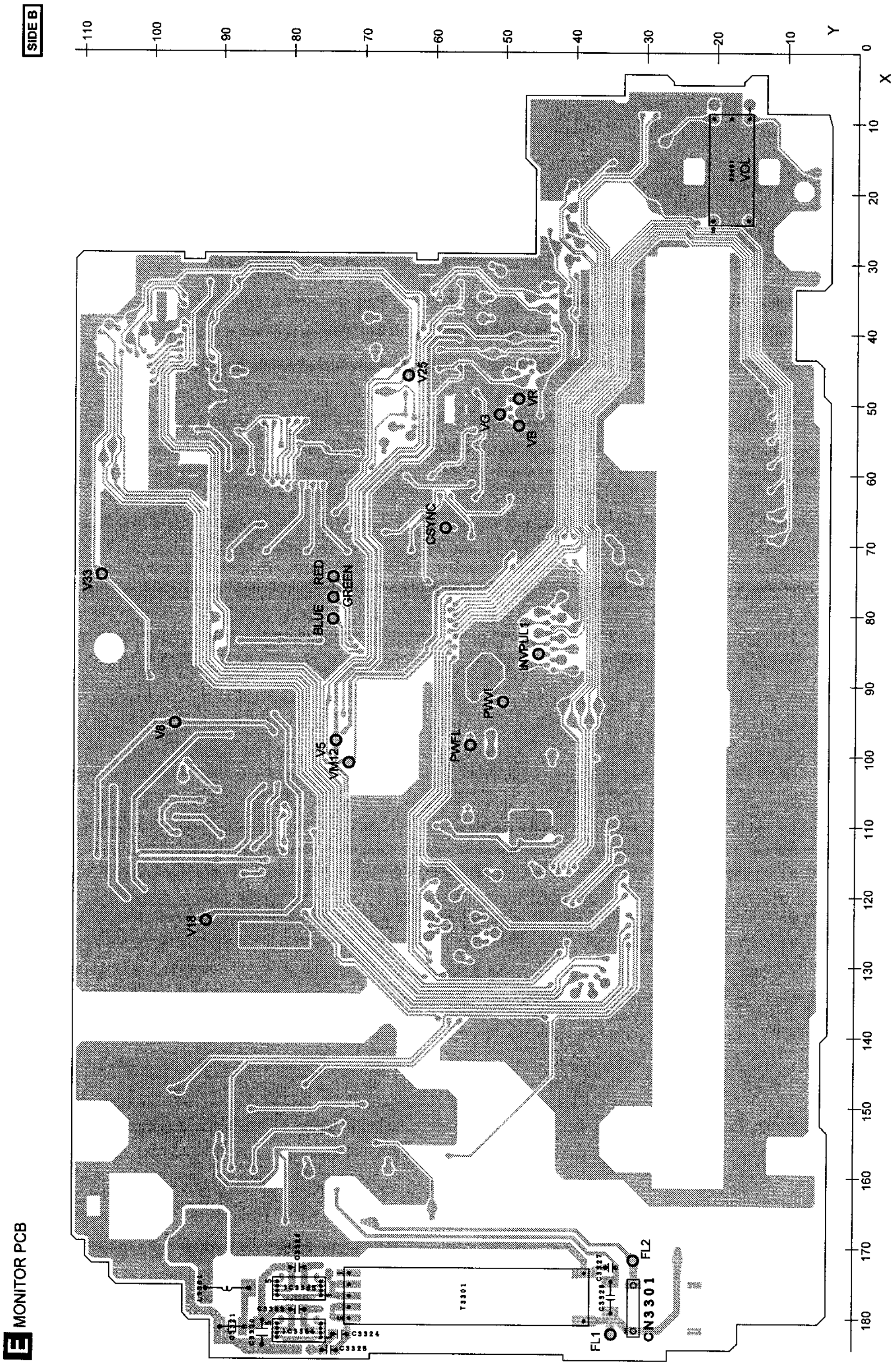
Do you eject this Test Disc?
(Change to the Map Disc to go to the normal mode)

[NAV] It means 'YES'.
[DEST] It means 'NO'.

- The confirmation screen for disc ejection is displayed.
- The disc is ejected by pressing the MAP key on Popeye and opening the flap.
- The DEST key moves it back to the MENU screen.

6.8 MONITOR PCB ADJUSTMENT

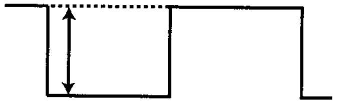
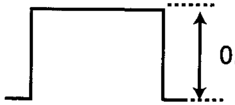
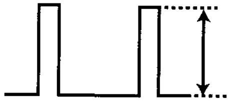
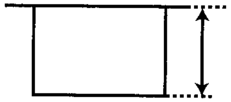
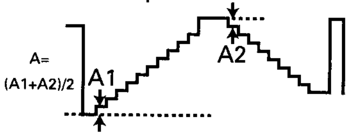
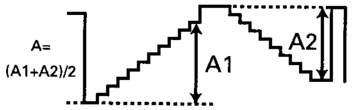
● **Adjustment point**


SIDE B
Y
X
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
VOL
V25
VG
VR
VB
CSYNC
RED
GREEN
BLUE
V33
INVPUL1
PWV1
PWFL
V5
VM12
V8
V18
T3301
C3324
C3325
FL1
FL2
CN3301
E MONITOR PCB

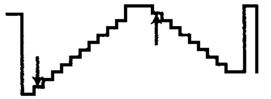
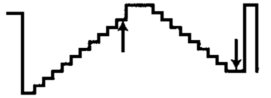
Notes:
When the power supply for TC90A64AF-P is OFF, be careful not to apply any voltage to its terminals except for IIC lines(SDA and SCL). The IIC lines can accept a maximum of 5V.

No	Adjustment item	Input	Measuring point	Adjusting point	Measuring method and specs.	Remarks
1	3.3V power supply verification	Apply 13.5V to TP PWVI.	(TP V33)	—	V33 = 3.3V ± 0.3V	
2	2.5V power supply verification	Apply 13.5V to TP PWVI.	(TP V25)	—	V25 = 2.5V ± 0.2V	
3	5V power supply verification	Apply 13.5V to TP PWVI.	(TP V5)	—	V5 = 5.0V ± 0.3V	
4	8V power supply verification	Apply 13.5V to TP PWVI.	(TP V8)	—	V8 = 8.0V ± 0.3V	
5	18.5V power supply verification	Apply 13.5V to TP PWVI.	(TP V18)	—	V18 = 18.5V ± 0.8V	
6	-12V power supply verification	Apply 13.5V to TP PWVI.	(TP VM12)	—	VM12 = -12.0V ± 0.6V	

Notes:
When the power supply for TC90A64AF-P is OFF, be careful not to apply any voltage to its terminals except for IIC lines(SDA and SCL). The IIC lines can accept a maximum of 5V.
*2) In the following table, SA**h is a sub-address of TC90A64AF-P.*

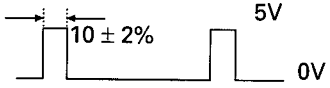
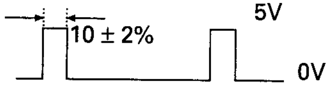
No	Adjustment item	Input	Measuring point	Adjusting point	Measuring method and specs.	Remarks
7	Vcom amp output Voltage waveform Verification	Any input signal	TP VCOM	–	4.50 ± 0.20V 	
8	Input waveform verification (RGB)	Apply a white 100% signal toTP RED, GREEN,BLUE.	TP RED,GREEN, BLUE	–	 0.7V ± 0.02V	The signal generator should be used via 75 ohms. (specs in desinging : 75.0 ± 0.2ohms)
9	Input waveform verification (composite)	Apply a composite signal toTP CSYNC.	TP CSYNC	–	 3.3 ± 0.02V	
10	RGB amp output voltage waveform verification	Apply a black signal to TP RED,GREEN, BLUE. (Video level:0%)	TP VG	–	 3.9 ± 0.2V	The input signal has no setup.
11	Gamma 0 Verification	Apply a 10-step signal to TP RED,GREEN, BLUE.	TP VG	–	The first-step A = 0.50V ± 0.1V 	The input 10-step signal has no setup.
12	Gamma 2 verification	Apply a 10-step signal to TP RED,GREEN, BLUE.	TP VG	–	The 10-step A = 3.10 ± 0.15V 	The input 10-step signal has no setup. If the measured value is out of specs, change the setting ofSA24h D11 - 8 (γ2 inflection point: GAMMA2 in the line adjustment 1 mode) (Register setting specs: 4 ± 1)

Notes:
1) When the power supply for TC90A64AF-P is OFF, be careful not to apply any voltage to its terminals except for IIC lines(SDA and SCL). The IIC lines can accept a maximum of 5V.
2) In the following table, SA**h is a sub-address of TC90A64AF-P.

No	Adjustment item	Input	Measuring point	Adjusting point	Measuring method and specs.	Remarks
13	B SUB BRIGHT	Apply a 10-step signal to TP RED, GREEN,BLUE.	TP VG and VB	Register setting of SA39h D11 - 8	Adjust the first step levels of the G waveform and the B waveform. 	Register setting specs : 8 ± 2 (specs in designing: 8 ± 1) In the Line adjustment 2 mode, SUB BRI B can be used as the adjusting point.
14	B SUB CONTRAST	Apply a 10-step signal to TP RED, GREEN,BLUE.	TP VG and VB	Register setting of SA26h D7 - 1	Adjust the 10th step levels of the G waveform and the B waveform. 	Register setting specs: 64 ± 3 (specs in designing: 64 ± 2) In the Line adjustment 2 mode, SUB CON B can be used as the adjusting point.
15	R SUB BRIGHT	Apply a 10-step signal to TP RED, GREEN,BLUE.	TP VG and VR	Register setting of SA39h D15 - 12	Adjust the first step levels of the G wave form and the R waveform.(Measuring point is the same as that of No,13.)	Register setting specs: 8 ± 2 (specs in designing: 8 ± 1) In the Line adjustment 2 mode, SUB BRI R can be used as the adjusting point.
16	R SUB CONTRAST	Apply a 10-step signal to TP RED, GREEN,BLUE.	TP VG and VR	Register setting of SA26h D15 - 9	Adjust the 10th step levels of the G waveform and the R waveform.(Measuring point is the same as that of No,14.)	Register setting specs: 64 ± 3 (specs in designing: 64 ± 2) In the Line adjustment 2 mode, SUB CON R can be used as the adjusting point.
17	Horizon dot position	Any input signal	—	Register setting of SA2Ah D3 - 0	3(0011)	After being written in,the setting value of EEP-ROM is checked. 2 mode,DOT CLK can be used as the adjusting point.
18	Aging	Any input signal	—	—	Keep the unit in the operation mode for 30 minutes or longer.	
19	Flicker	Input a signal for alternate white and black lines to TP RED, TP GREEN and TP BLUE.	Screen	Register setting of SA22h D15 - 8	Adjust so that the flickers become minimum in all	If it input a signal for alternate white into TP CVBS, it is possible. (However, adjustment by RGB has priority.) The luminance level of the input signal: 50%. In the flicker adjustment mode, COM DC can be used as the adjusting point.

Flicker adjustment has been deviated The images flicker.

● INVERTER

No	Adjustment item	Input signal	Measuring point	Adjusting point	Measuring method and specs.	Remarks
1	BACK LIGHT DRIVE FREQUENCY	Apply 13.5V ± 0.2V to TP PWFL TP GNDFL1 and TP INVPUL1 : GND BSTDC : L output fixation	TP:FL1,FL2	VR 3301	48.0 ± 0.1kHz	100k ohms is connected between TP FL1 and TP FL2. It acts as the monitor of the waveform after potential. Don't acts as the monitor of the TP FL2 directly. (there is a possibility that a measuring instrument may be destroyed, for high voltage.)
2	FREQUENCY CHANGE CHECK	Apply wave of 98.0 ± 1kHz to TP INVPUL 	TP:FL1,FL2		49.0 ± 0.5kHz	It checks that the waveform after potential is set to 49 kHz
3	FREQUENCY CHANGE CHECK	Apply wave of 104.0 ± 1kHz to TP INVPUL 	TP:FL1,FL2		52.0 ± 0.5kHz	It checks that the waveform after potential is set to 52 kHz

●EEPROM Setting Mode Specification

[Operation Specification]

- For OSD display, install a jig for monitor adjustment (GGF1416) to the OSD connector for CN3101 service.
- Resetting the monitor microcomputer with the [EPRTEST] terminal Low moves to [Flicker Adjustment Mode].
- Switch setting modes with the [MENU] key.
  [Flicker Adjustment Mode] → [Line Adjustment 1 Mode] → [Line Adjustment 2 Mode] →
  [Brightness Adjustment Mode for Technology Consideration] → [Flicker Adjustment Mode]
- Select an item you want to adjust with the [TUNE] key.
- Adjust the selected item with the [SEEK] key.

* The set value is written to E^{2}PROM then read out, and the read value is displayed.
Writing and reading are conducted in 16 bits. The number of bits differs from items.

*The value targeted for CS (checksum) calculation takes exclusive OR (XOR) in 8 bits after modification, and writing is conducted.
This CS value is also written to E^{2}PROM then read out, and the read value is displayed.
When the written value and the read value are different, the font color of the read value is changed.

[Memory Item List & EEPROM (S- 29221BROI) Memory Alignment]

Memory Array	E^{2}PROM Address	Memory Description	Targeted for CS Calculation
Bank 1	05_H	Common Reverse Output Amplitude (COM AMP)	○
	06_H	Output Clamp DC (RGB BIAS)	○
	07_H	γ0 Inflection Point (GAMMA 0)	○
	08_H	γ3 Inflection Point (GAMMA 3)	○
	09_H	γ2 Inflection Point (GAMMA 2)	○
	$0A_H$	γ1 Inflection Point (GAMMA 1)	○
	$0B_H$	Output Signal Sub Contrast R (SUB CON R)	○
	$0C_H$	Output Signal Sub Contrast B (SUB CON B)	○
	$0D_H$	After-γ Circuit Sub Brightness R (SUB BRI R)	○
	$0E_H$	After-γ Circuit Sub Brightness B (SUB BRI B)	○
	$0F_H$	Clock Phase Adjustment (DOT CLK)	○
	10_H	Sharpness (SHARPNESS)	○
	11_H	Checksum from 00_H to 10_H	×
	12_H | $1F_H$	Don't care	×

* Bank 1 (Area with a memory protect function): Writing is conducted with line adjustment and users cannot adjust.

[Displays in each mode]
In the following figures, the letters and numbers surrounded by a large square are for OSD examples.
On the screen, the adjustment names and the settings (or written data) are listed.
The settings (or written data) will change when some adjustments are made in each mode.
(The following examples show the EEPROM reset.)

(1) Flicker adjustment mode

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)		
Common reverse output center	[0 - 255]	COM DC	140		

Notes: The CONTRAST data is [88], and used as refference data for other adjustment items.

(2) Line adjustment 1 mode

Adjustment item	Adjustment item	Adjustable range	Settings or written data (DEC)		
Bright (SA22: B7-2)	[0 - 63]	BRIGHT	30		LINE1
Contrast (SA25: B7-1)	[0 - 127]	CONTRAST	88		
Common reverse output center	[0-255]	COM DC	140		
Common reverse output amplitude	[0-63]	COM AMP	30		
Output clamp DC	[0-63]	RGB BIAS	0		
γ0 inflection point	[0-15]	GAMMA0	2		
γ3 inflection point	[0-15]	GAMMA3	4		
γ2 inflection point	[0-15]	GAMMA2	4		
γ1 inflection point	[0-31]	GAMMA1	19		
				CS	83

Notes:
1) CONTRAST data
The CONTRAST data is adjustable, and used as reference data for other adjustment items, which is not memorized in the EEPROM.
2) BRIGHT and COM AMP data
The BRIGHT and COM AMP adjustments are made by using the same 2-screen IC register (SA22h B7-2: common reverse output amplitude).
Therefore, adjusting one of the data will change the other one.

Notes: The CONTRAST data is [88], and used as refference data for other adjustment items,

(3) Line adjustment 2 mode

Adjustment item	Adjustment range	Adjustable name	Settings or written data (DEC)		
Bright (SA22: B7-2)	[0 - 63]	BRIGHT	30		LINE2
Contrast (SA25: B7-1)	[0 - 127]	CONTRAST	88		
Output sub contrast R	[0 - 127]	SUB CON R	64		
Output sub contrast B	[0 - 127]	SUB CON B	64		
Sub brightness R after γ circuit	[0 - 15]	SUB BRI R	8		
Sub brightness B after γ circuit	[0 - 15]	SUB BRI B	8		
Clock phase adjustment	[0 - 15]	DOT CLK	3		
Sharpness	[0 - 3]	SHARPNESS	3		
				CS	83

Notes:

1) CONTRAST data

The CONTRAST data is adjustable, and used as reference data for other adjustment items, which is not memorized in the EEPROM.

2) SUB BRI R and SUB BRI B data

The displayed value or EEPROM written data is different from the setting value for the 2-screen IC register (TC90A64AFP).

(Before displayed on the screen, the setting value is converted via some software.)

Displayed value (adjusting value) (DEC)	EEPROM written value. (DEC)	2-screen IC register setting (BIN)	
15	15	0111	(MAX)
14	14	0110	
• •	• •	• •	
9	9	0001	
8	8	0000	(TIP)
7	7	1111	
• •	• •	• •	
1	1	1001	
0	0	1000	(MIN)

(4) Brightness adjustment mode for technical examination

Adjustment item	Adjustment item	Adjustable range	Settings or written data (DEC)
Backlight brightness adjustment	[0 - 255]	DIMDTY	255
Key illumination brightness adjustment	[0 - 255]	ILMOUT	255

Note: The dimmer point data is memorized in the EEPROM, but not treated as a CS item. It's because the settings are adjustable by the user.

7. GENERAL INFORMATION

7.1 DIAGNOSIS

7.1.1 DISASSEMBLY

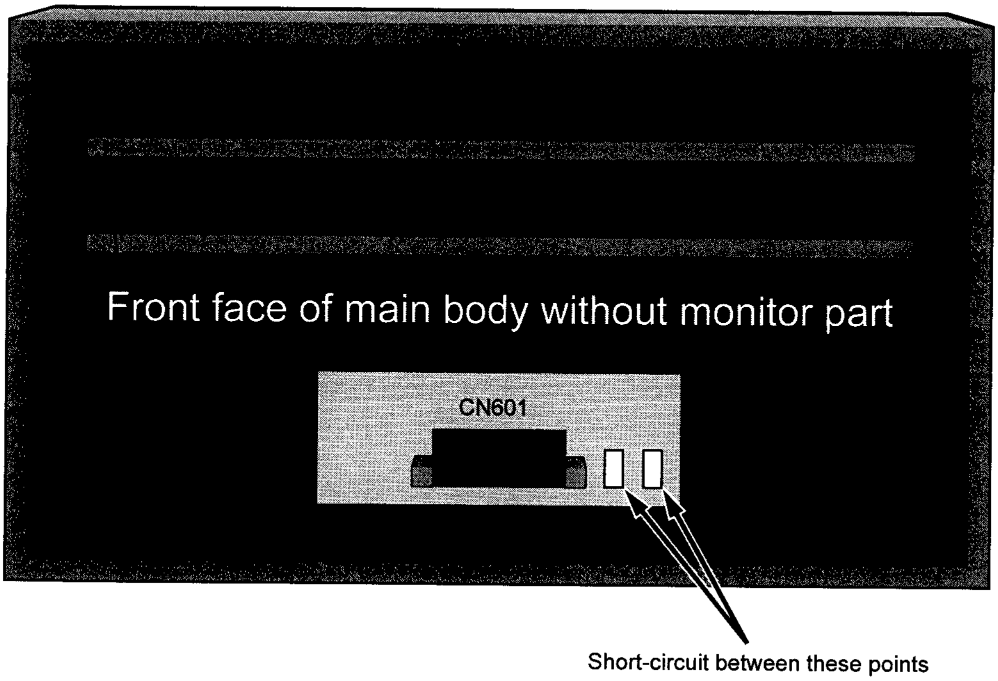
Notes

- Touch Panel :
  Fingerprints are easier to be left on the surface in this product than in the existing product. So, if fingerprints are left, wipe them with dry cloth (Toray see paper by TORAY).

- FPC, FFC, Cord Assy :
  Stringing is complicated a little, so take much care to prevent half-insertion or putting-in.

- Monitor Case :
  The monitor case is made of magnesium, so it is a little harder in desorption than that of the existing products. Take much care not to be damaged. The coated surface is easy to be damaged, so handle with care.

- Front face of main body without monitor part


Front face of main body without monitor part
CN601
Short-circuit between these points

This product has large capacity of capacitor for power conservation so that the electric charge remains in the image series of power line for a while even when the backup switch is turned off.
When mounting monitor part, make sure to extract the electric charge in image series of power source in advance.

For extracting electric charge, short-circuit the land for short located on the right side of flex-connector CN601 by bridging with the tweezers or other metallic tool.

As electric will not be discharged soon after switching off the backup, note that the chip fuse FU601 on CN601 side may be disconnected according to the way of connection (e.g., align from slant direction) when FPC from monitor part is connected to CN601.

● Removing the Case (not shown)

1. Remove the two screws and then remove the Case.

● Removing the CD Mechanism Module (Fig.1)

1 Remove the four screws.

Disconnect the connector and then remove the CD Mechanism Module.

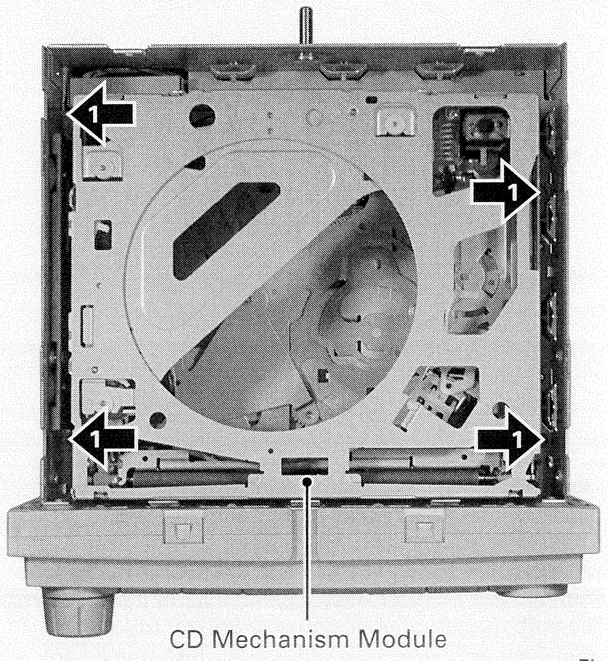


Fig.1

● Removing the Monitor Assy

1 Remove the two screws. (Fig.2)

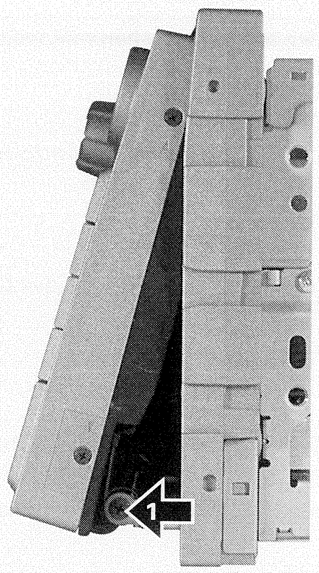


Fig.2

(2) Remove the screw to remove the Cover.
Do not pull the connecting flexible cable. (Fig.3)

(3) Remove the flexible cable from the connector to remove the Monitor Assy. Push the lid of the connector up with the top of precision screwdriver (minus), and then remove the flexible cable. Take much care not to pull the connector forcedly or break it open because it is easy to be damaged. And also, use the precision screwdriver in the same way in the installation. (Fig.3)

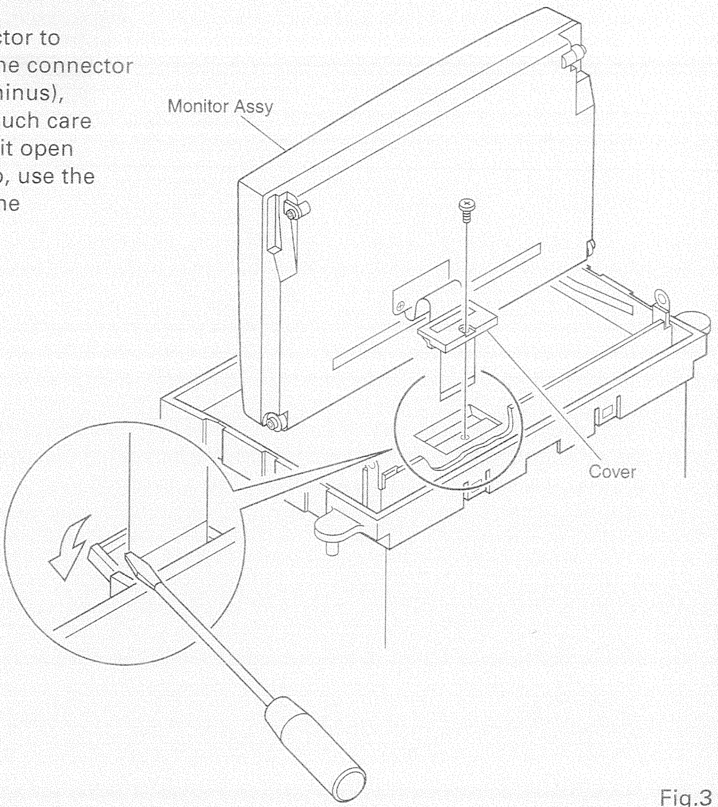


Fig.3

● Removing the Case Unit (Fig.4)

1. Remove the two screws and then remove the Guide.
2. Remove the two screws.
3. Remove the five screws.
4. Remove the four screws and then remove the Case Unit.

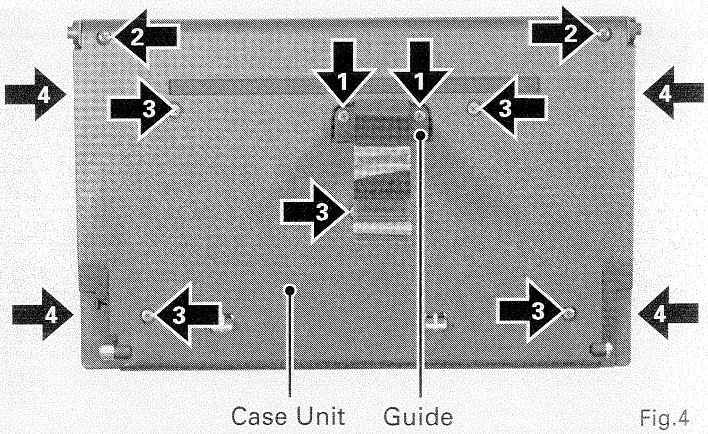

2
2
4
1
1
4
3
3
3
4
3
3
4
Case Unit
Guide

Fig.4

● Removing the Monitor PCB (Fig.5)

1. Remove the seven screws.

Disconnect the connector and then remove the Monitor PCB.

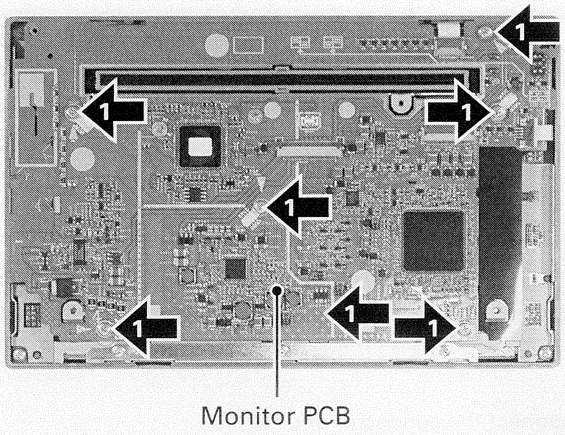

1
1
1
1
1
1
1
Monitor PCB

Fig.5

● Removing the Panel Unit (Fig.6)

1. Remove the eight screws and then remove the Panel Unit.

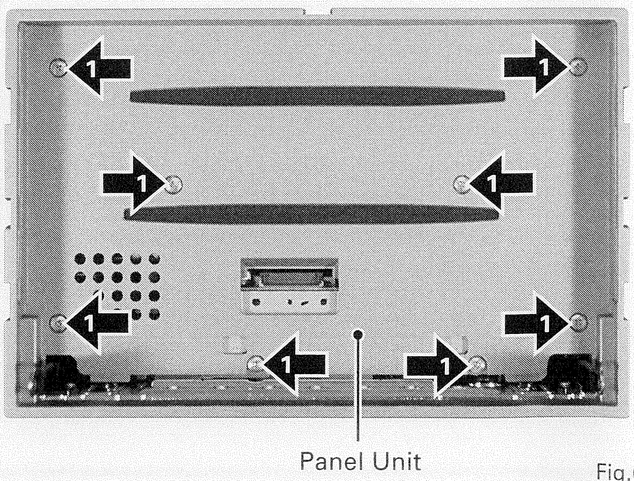
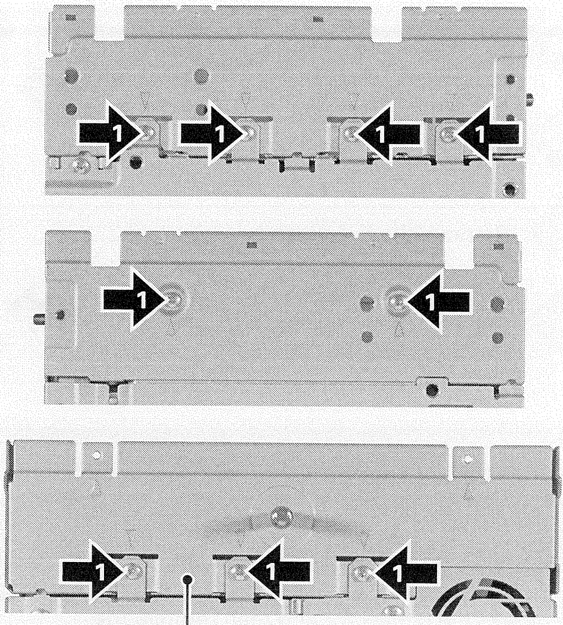

1
1
1
1
1
1
1
1
Panel Unit

Fig.6

● Removing the Chassis Unit (Fig.7)

1 Remove the nine screws and then remove the Chassis Unit.



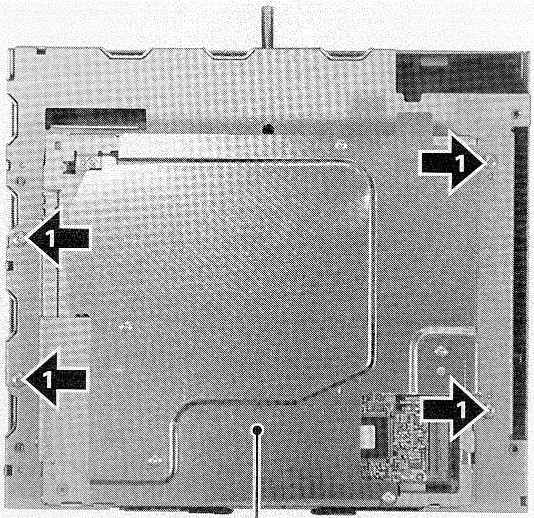
Chassis Unit

Fig.7

● Removing the DVD Mechanism Module (Fig.8)

1 Remove the four screws.

Disconnect the connector and then remove the DVD Mechanism Module.



DVD Mechanism Module

Fig.8

● Removing the Navi Unit (Fig.9)

1 Remove the two screws.

2 Remove the three screws and then remove the Heat Sink.

3 Remove the four screws.

4 Remove the six screws.

4 Disconnect the three connectors and then remove the Navi Unit.

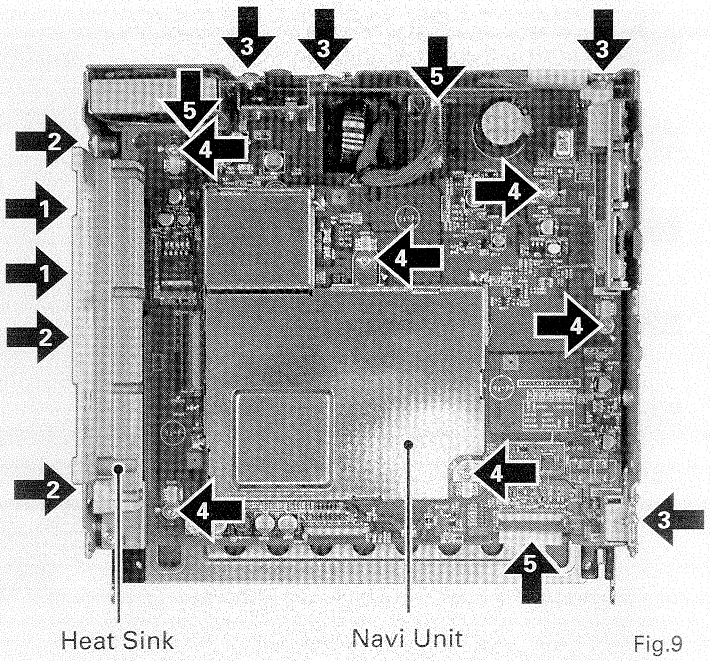

3
3
5
3
5
4
2
4
1
4
1
2
4
4
2
4
3
5
Heat Sink
Navi Unit

Fig.9

● Removing the Chassis Unit (Fig.10)

1 Remove the four screws and then remove the Chassis Unit.

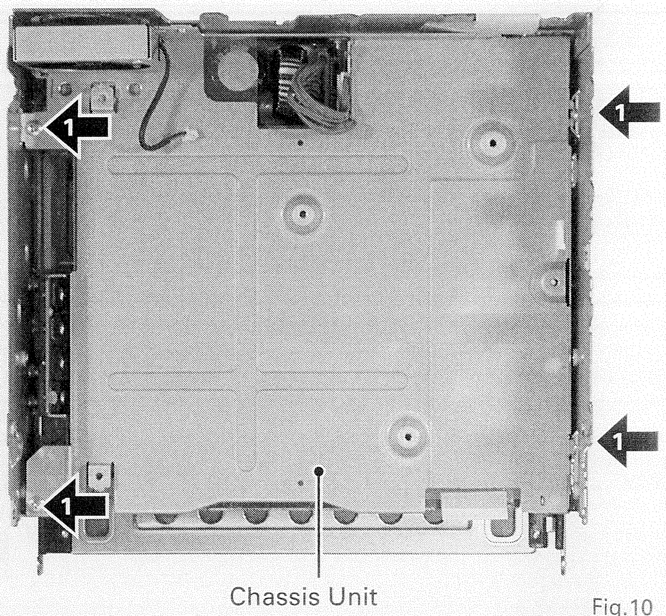

1
1
1
1
Chassis Unit

Fig.10

● Removing the Audio PCB (Fig.11)

1. Remove the screw.
2. Straighten the tab at location indicated.
3. Remove the four screws.
4. Remove the tape.
5. Disconnect the three connectors and then remove the Audio PCB.

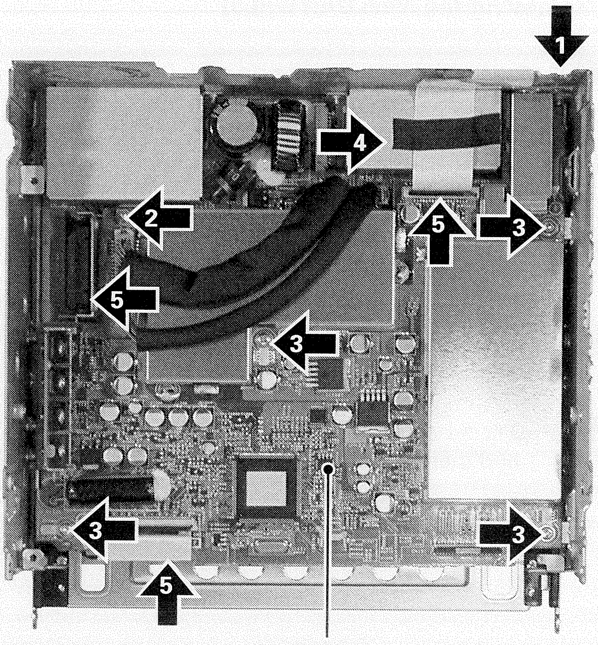

1
4
2
5
3
5
3
3
3
5
Audio PCB

Fig.11

● Removing the Connector PCB (Fig.12)

1. Remove the two screws.
2. Remove the four screws.

Disconnect the connector and then remove the Connector PCB.

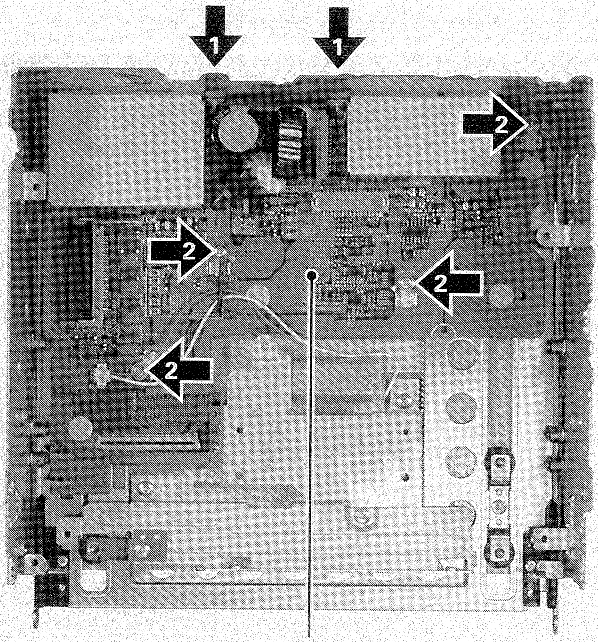
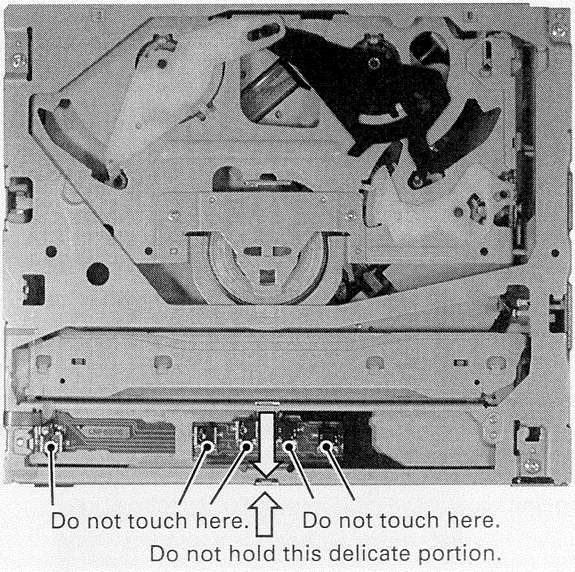

1
1
2
2
2
2
Connector PCB

Fig.12

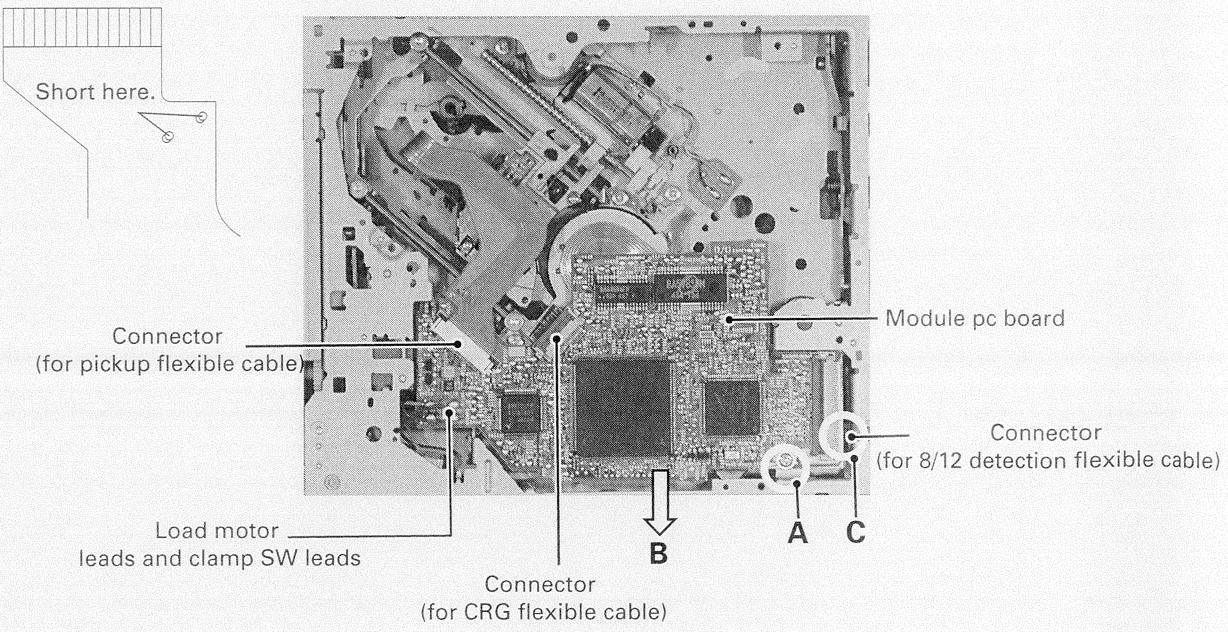
● Precautions on handling the mechanism module

1. Hold the upper and main frames.
2. Do not hold the front portion of the upper frame. It is a delicate part.
3. Do not touch the switches on the top panel.
4. Be careful not to catch the flexible cables.


Do not touch here.
Do not touch here.
Do not hold this delicate portion.

● Removing the module pc board

1. Set the mechanism to the lock position (disc load standby position).
2. Place the mechanism module upside down.
3. Short the two lands on the pickup flexible cable as shown below.
4. Be sure to disconnect the pickup flexible cable and the CRG flexible cable from the connectors to protect them from damages.
5. Remove solder from the load motor leads and clamp SW leads.
6. Loosen the two fixing screws. Lift the position A of the module pc board lightly and move it in the direction B to remove it. Be careful not to damage the flexible cable C.
7. Disconnect the 8/12 detection flexible-cable from the connector.


Short here.
Module pc board
Connector
(for pickup flexible cable)
Connector
(for 8/12 detection flexible cable)
Load motor
leads and clamp SW leads
B
A
C
Connector
(for CRG flexible cable)

● Removing the pickup unit

1. Remove the module pc board in accordance with the procedure of "Removing the module pc board."
2. While holding the pickup case, remove the skew screw (main).
3. Lifting the end of the pickup rack, slide the main shaft, and remove the pickup unit.

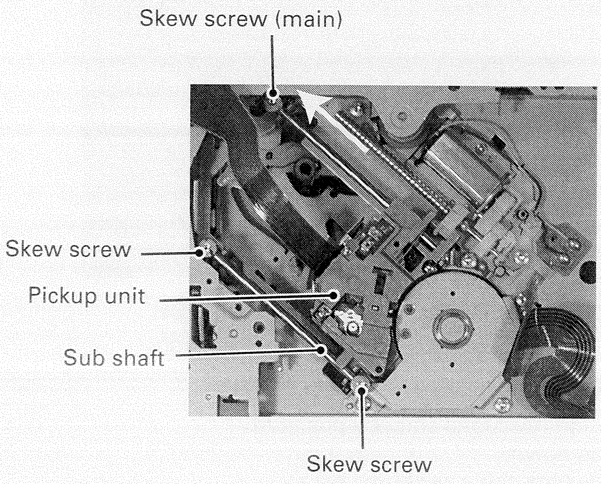
Notes:

Replacing the pickup unit requires the skew adjustment.

Remove glue from both ends of the main and sub shafts, and skew stud.

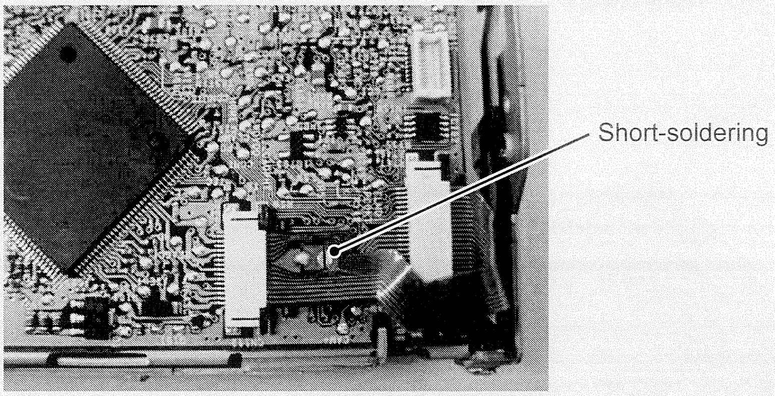
Do not reuse the old skew screw. Be sure to use a brand-new skew screw supplied with a new pickup unit.

Fix the skew screw with glue (GYL1001) after adjustment.



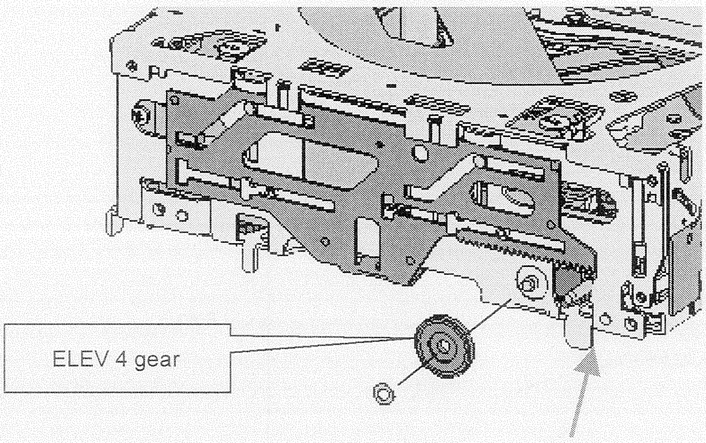
● Preparation for removal

1. Place the mechanism in the ELEV O.K. state.
2. Eliminate static electricity with a wrist band, etc.
3. Carry out short-soldering. (There are two points to be short-soldered. It is enough to solder one of them.)
4. Slide the lock section of the connector to fix a flexible cable and remove a flexible cable. (2 points)



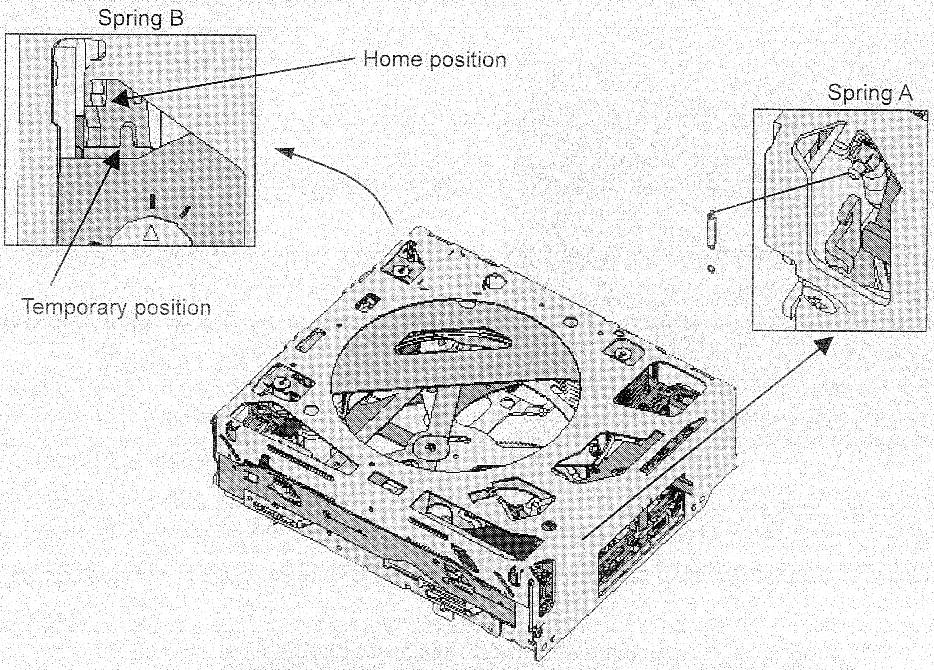
● How to remove the Upper Case

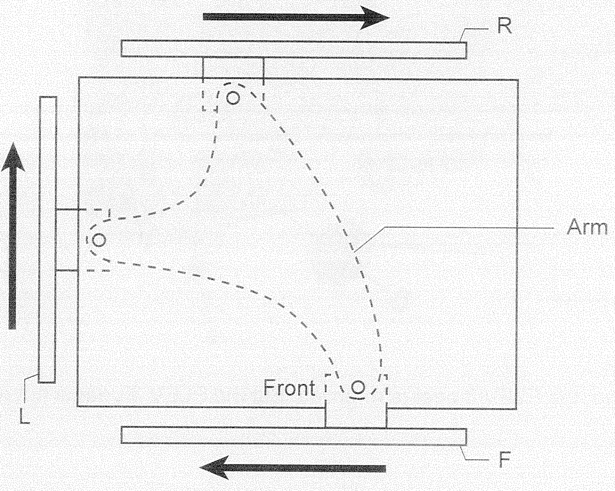
1. Remove poly washer. Remove the ELEV 4 gear.
   Once the ELEV 4 gear is removed, the stair can be slid as desired.



*In the illustration above, the ELEV 3 gear is removed. But the ELEV 3 gear is not required to be removed.

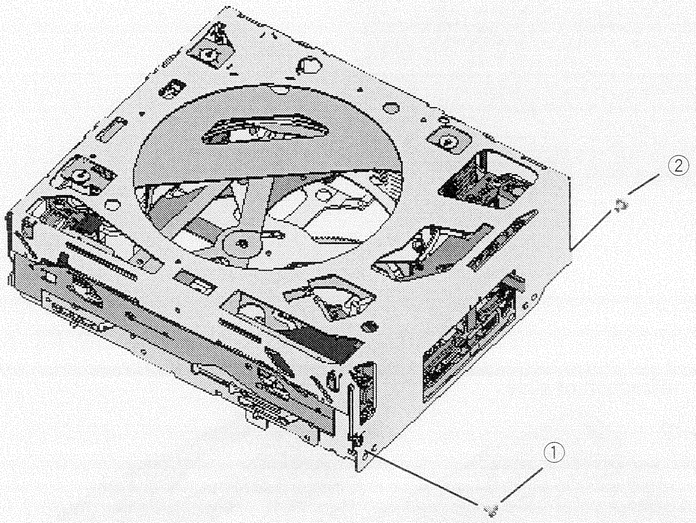
1. Manually slide the stair (clockwise) to raise the stage block to the uppermost floor.
2. Remove front right spring A.
3. Change the position of the back left spring B from the home position to a temporary position. (The hook at the temporary position is fixed on the stage. This means that the stage needs to be raised to the uppermost floor to enable easy re-positioning of the spring.)

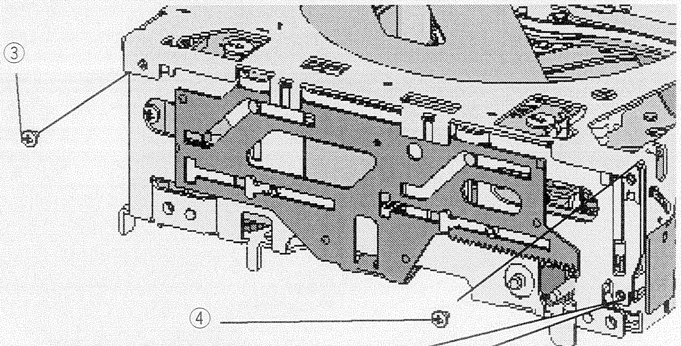

Spring B
Home position
Temporary position
Spring A


R
Arm
Front
L
F

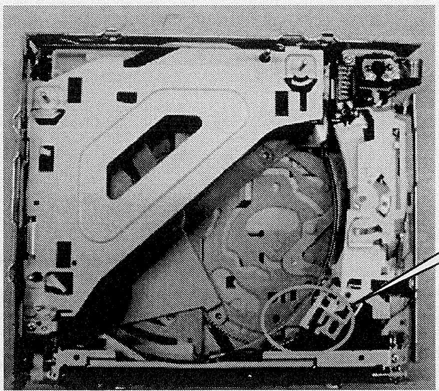
In a stair, 3 of F (front), L (left) and R (right) are linked by an arm at the bottom of mechanics, and when moving it to <- direction, a stage moves to the top. (clockwise when looking from upward)

4. Manually slide the stair to lower the stage.
5. Remove four screws which are used to secure the upper case. Remove the upper case.
6. Lightly slide the snap-fitted top arm to remove it.





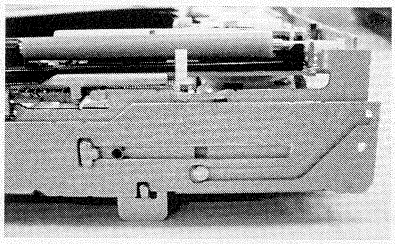
This screw is not required to be removed.



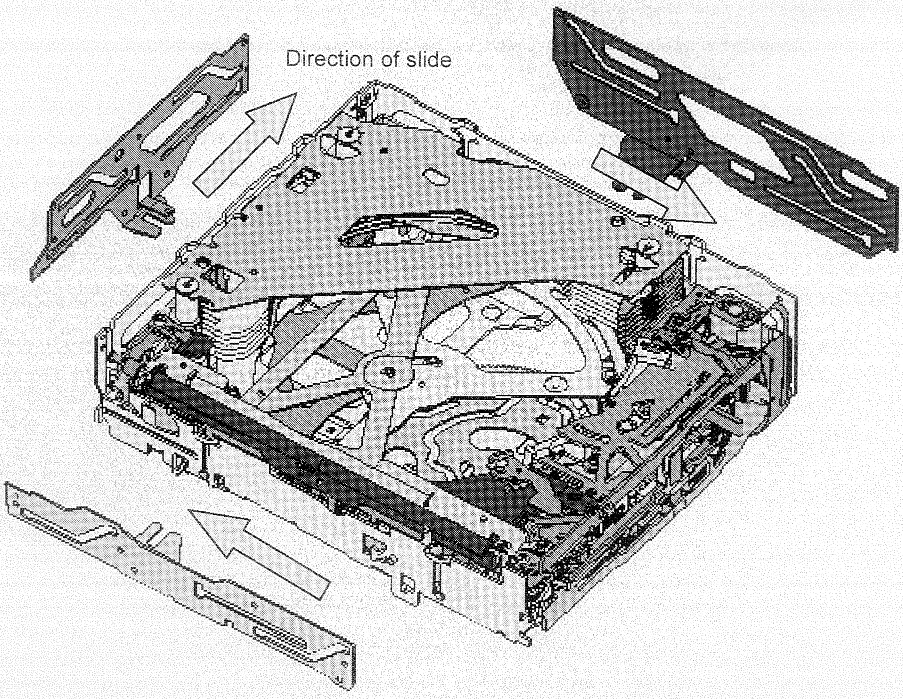
Top arm

● How to remove the Stair

1.Slide the stair in the direction for lowering the tray block until it will go no further. (See the photo shown below.)

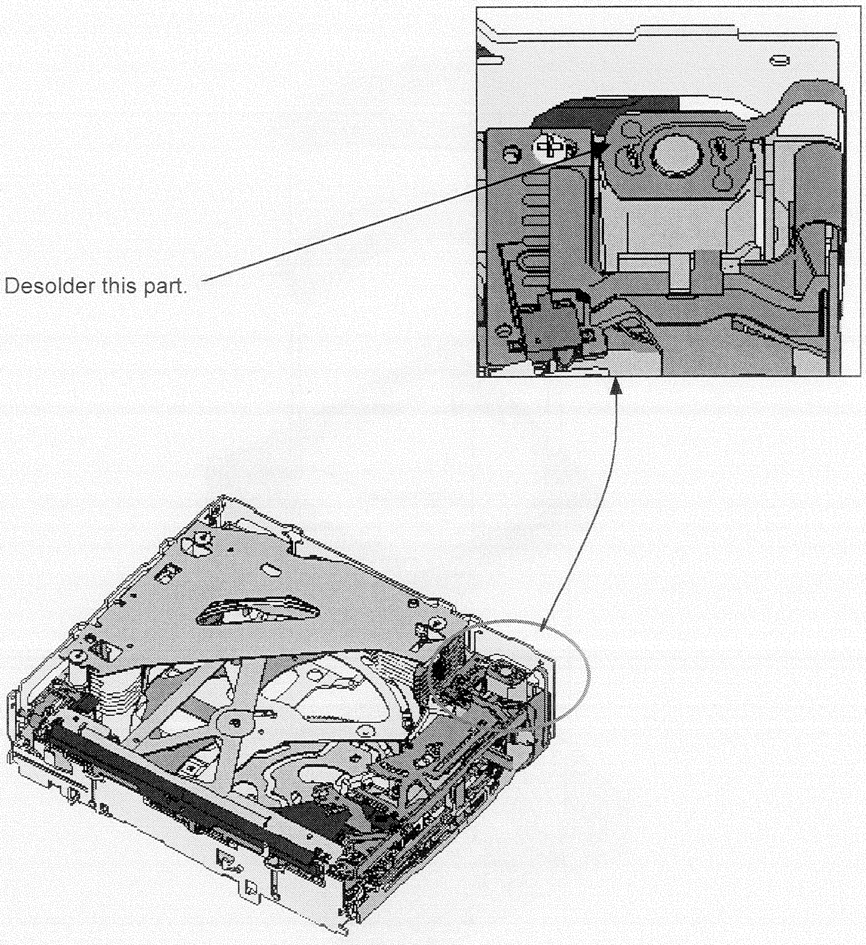


2.Remove three stairs.



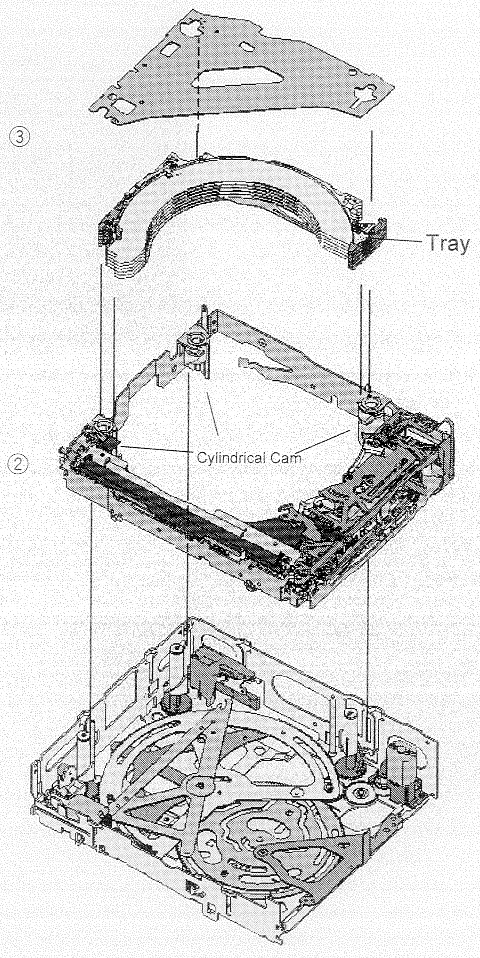
How to remove the Stage

1. Desolder the back right cam motor. Then, remove the flexible cable.



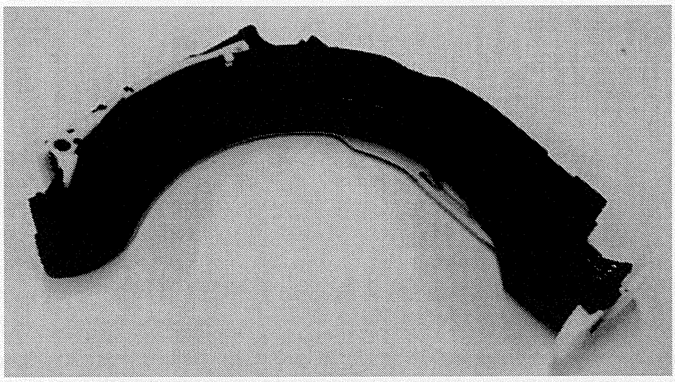
Desolder this part.

2. Draw out the stage block in vertical direction.
3. Lift up the triangular top plate in the vertical direction, then slide it away from you until it comes off.
4. Remove the tray and cylindrical cam from the stage.



● ASSEMBLING THE STAGE UNIT

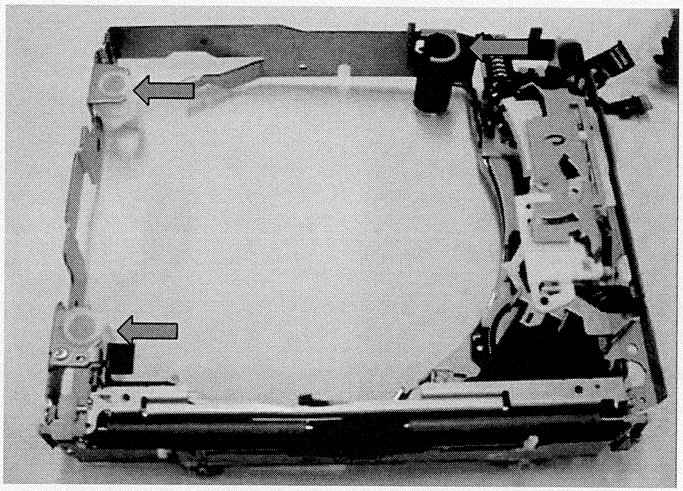
1. Prepare the tray
   Pile the 6 trays so that the tray with steel plate is at the bottom



Tray (6-pile)

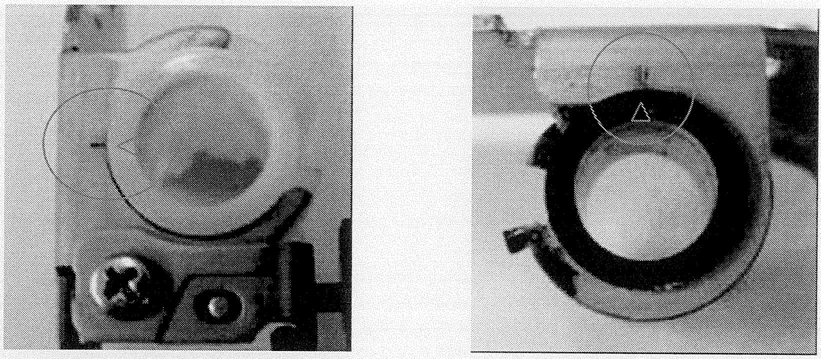
2. Prepare the STG

Attach the cylinder cam OUT to the stage.
At this time, attach the black cylinder cam at the right back.



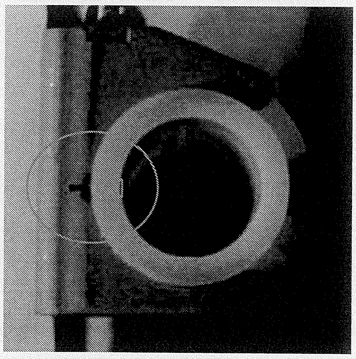
Location to attach the cylinder cam OUT

Rotate the matched cylinder cam and match the marks of STG and cam (for all cams).



Left back

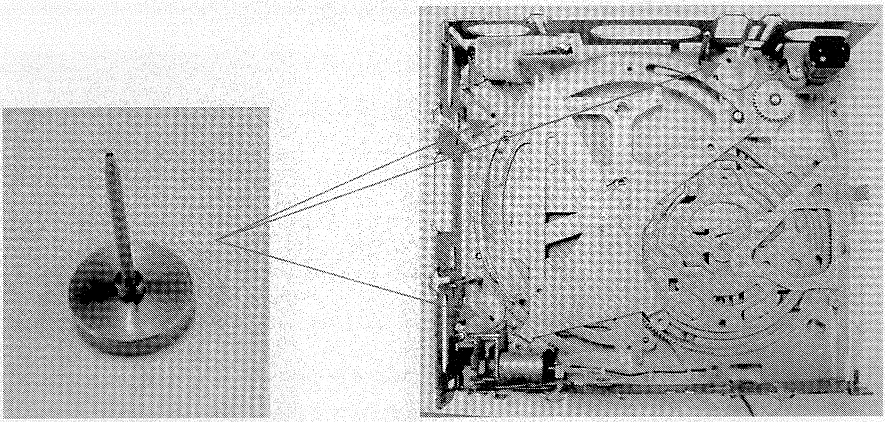
Right back



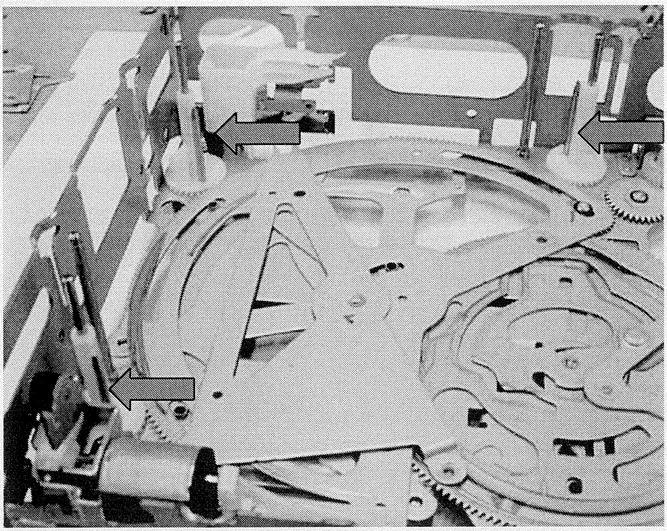
Left front

Location of mark of cylinder cam OUT

3. From rear side of main chassis, insert the assembly jig to the cylinder cam gear (x3).

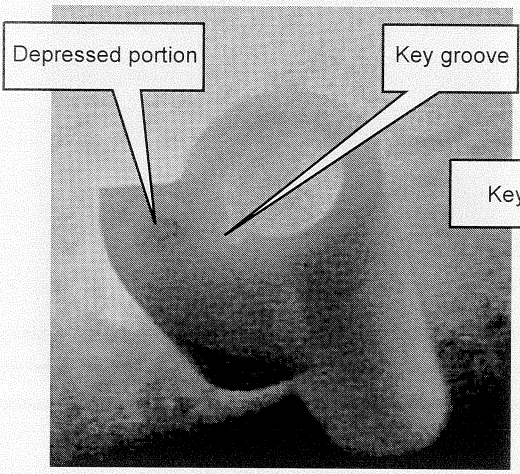


Assembly jig
GGF1538*3

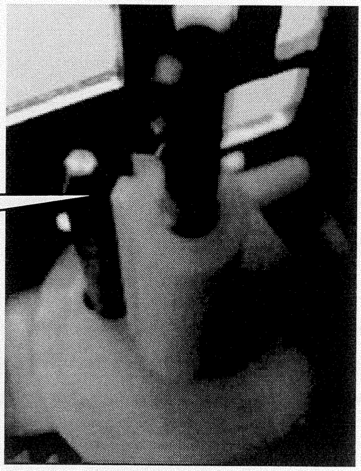


After inserting the assembly jig

4. Insert the cylinder cam IN (x3)
   At this time, set the key part of cylinder cam gear to the key groove of inside of cylinder cam IN.
   Match the tip of assembly jig to the depressed portion on the bottom panel of cylinder cam IN.

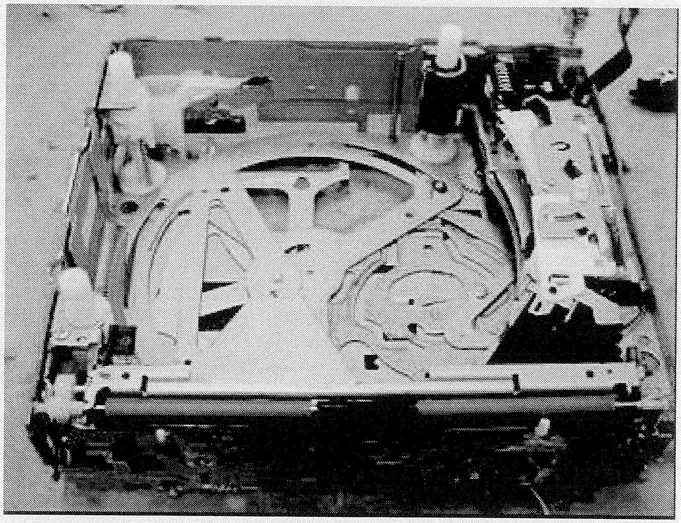


Cylinder cam IN



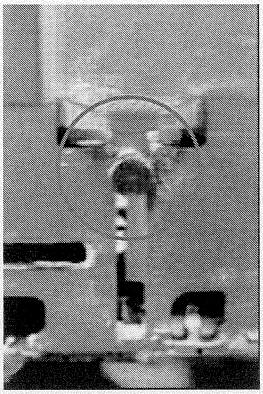
Cylinder cam gear

5. Attaching the STG
   At this time, as the right front part does not have a bracket, support it with something.

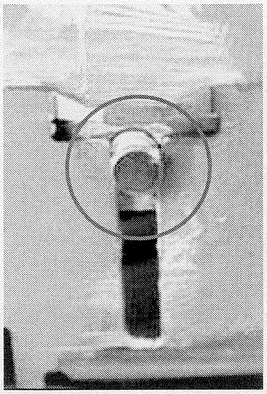


After attaching the STG

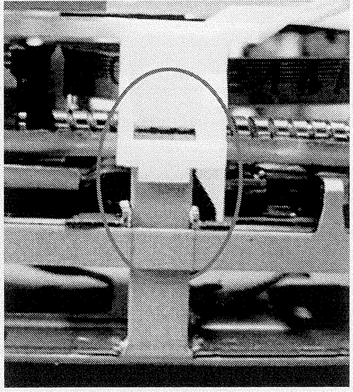
At this time, check the three parts shown in the figure below fit.
Especially, for the right panel, take care so that the metallic bar protruding from the main chassis fits the both of stage link lever and white resin part.



Left front



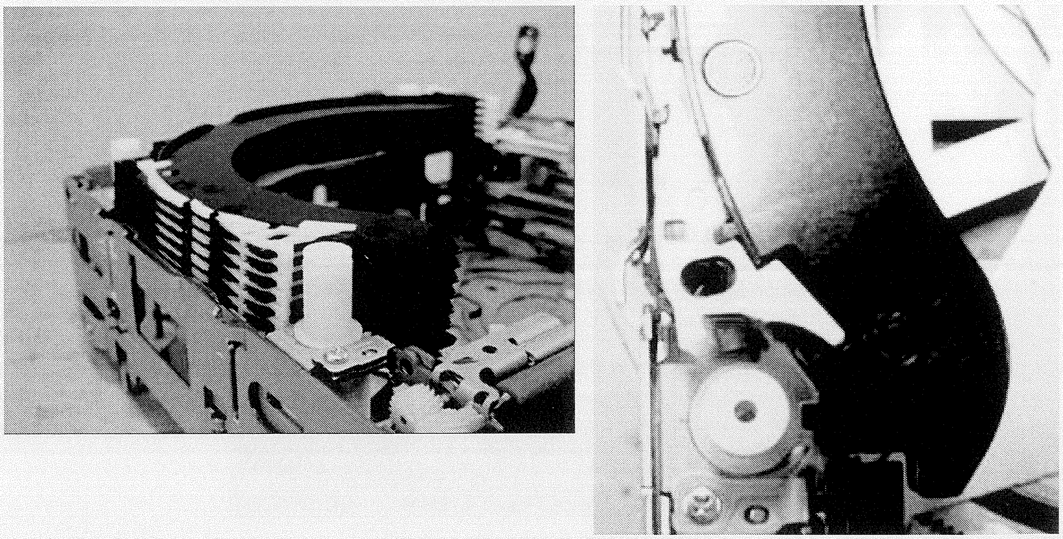
Right front



Right panel

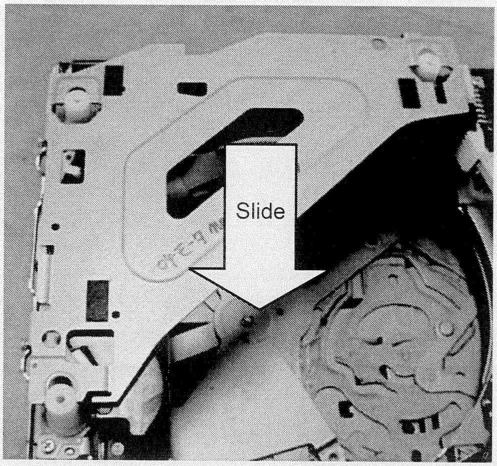
* In this operation, take notice that the cylinder cam whose mark is matched in step ② may jolt out of alignment. If it jolts out of alignment, reposition the key groove and mark.

6. Place the tray. At this time, the tray pin should be inserted to the location shown in the figure.

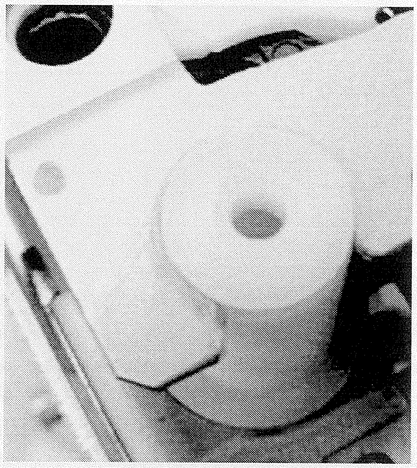


State of attached tray

7. Insert the tray holder
Insert the tray holder to the tip of cylinder cam IN, and then slide it to forward and fix it. At this time, take notice that the black sheet on the rear side of tray holder sticks easily in the tray.
Check it is properly set (3 parts) as shown in the figure at lower right.

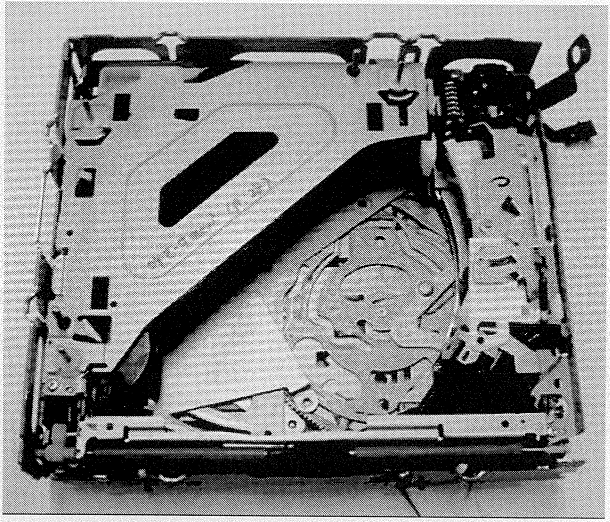


Direction to slide the tray holder



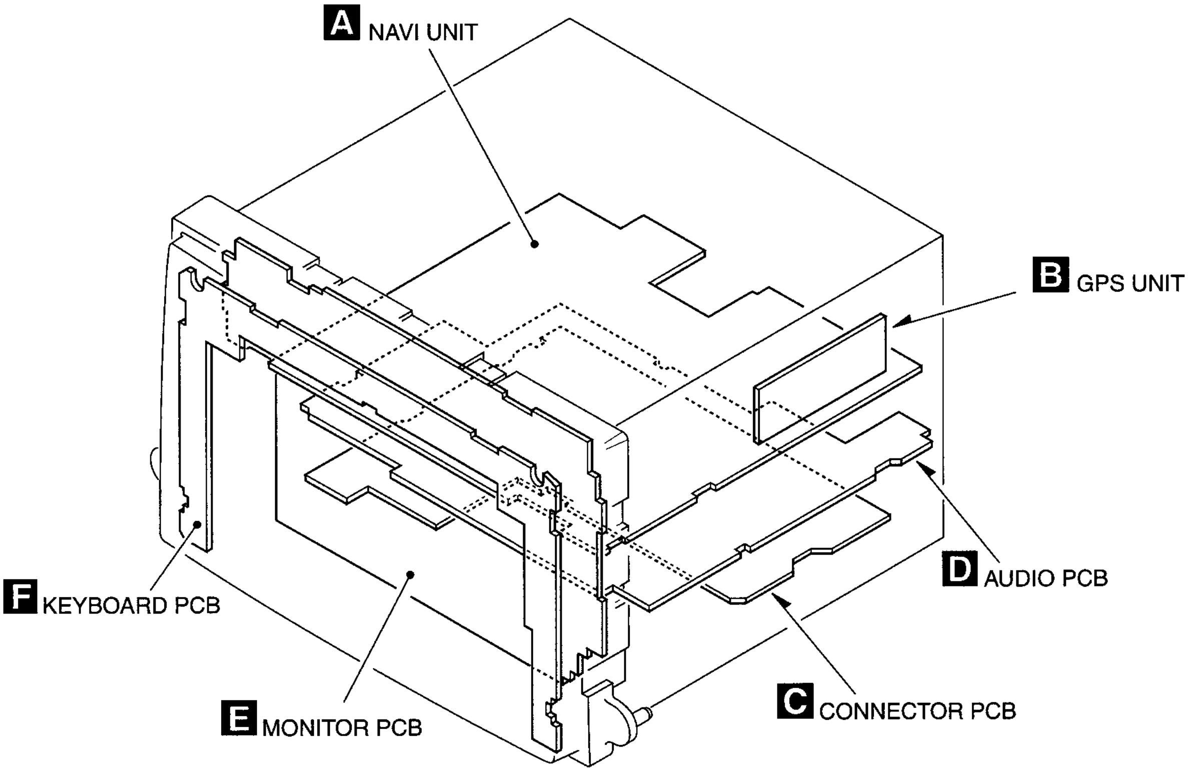
Tray holder rigid part

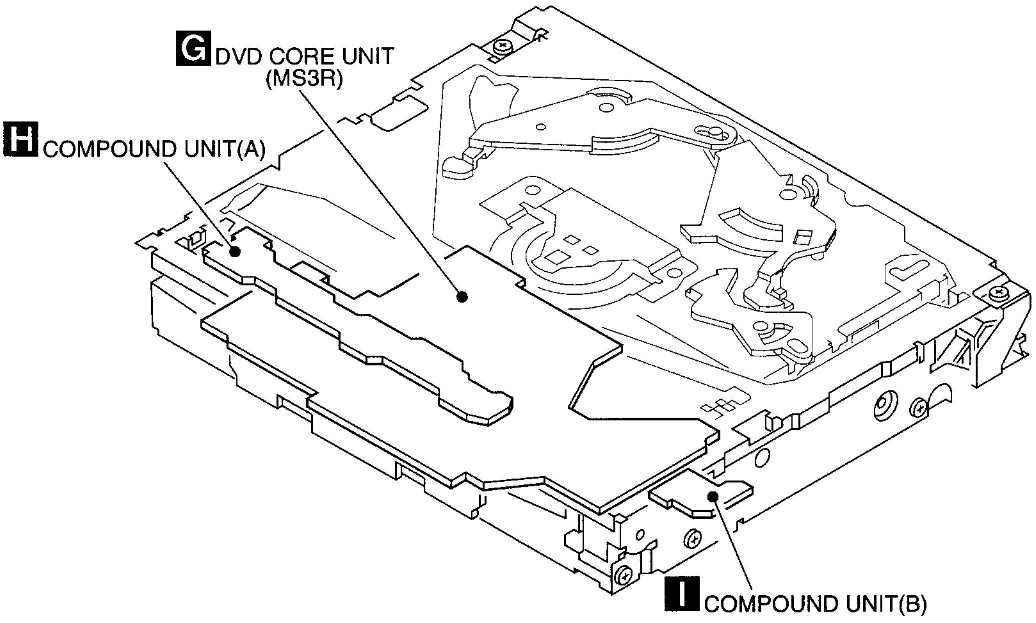
8. Pick up the main chassis slowly, and pull out the jig

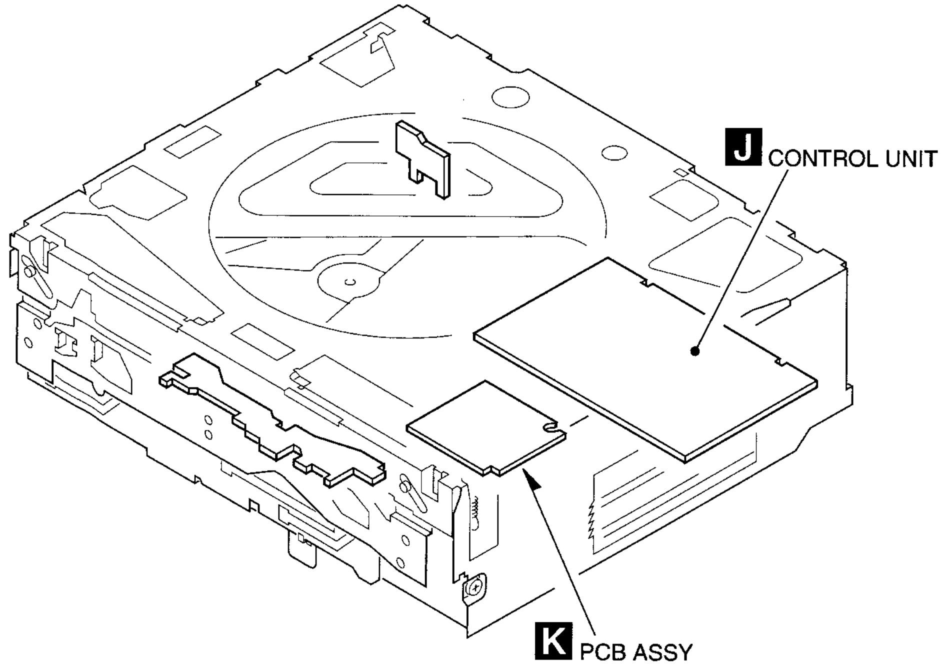


The STG unit is properly assembled

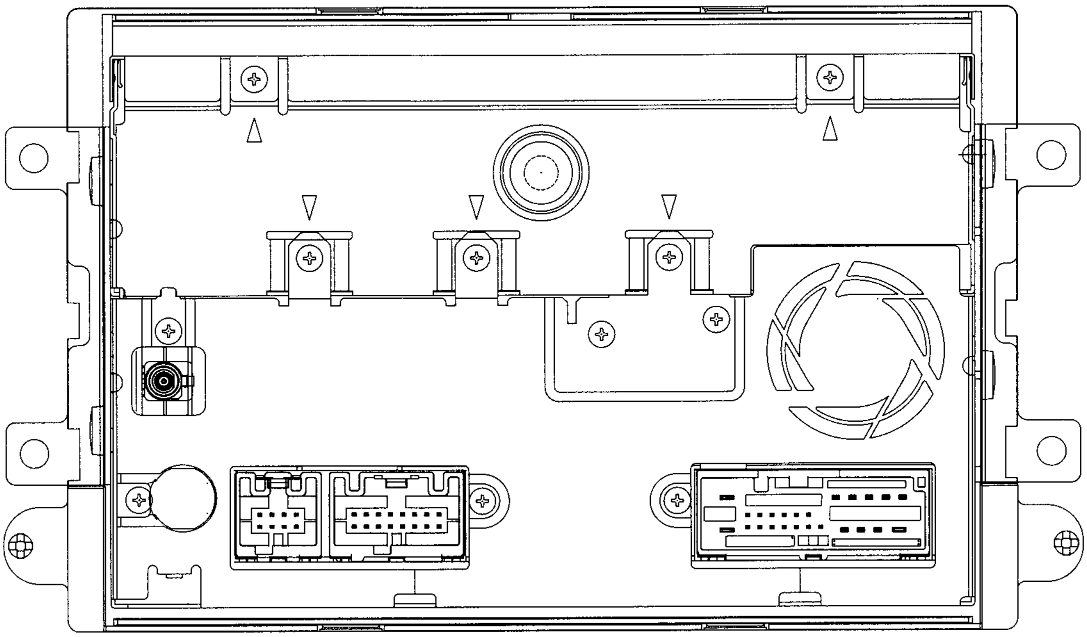
7.1.2 PCB LOCATIONS

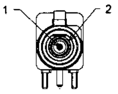

A NAVI UNIT
B GPS UNIT
D AUDIO PCB
F KEYBOARD PCB
C CONNECTOR PCB
E MONITOR PCB


G DVD CORE UNIT (MS3R)
H COMPOUND UNIT(A)
I COMPOUND UNIT(B)

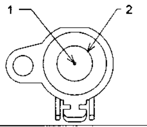

J CONTROL UNIT
K PCB ASSY

7.1.3 CONNECTOR FUNCTION DESCRIPTION

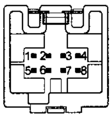




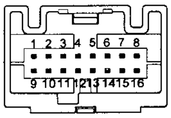
GPS ANTENNA	
PIN	SIGNAL
1	GPS SIGNAL
2	GPS SIGNAL SHIELD



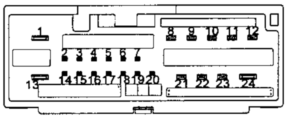
AM/FM ANTENNAJ1	
PIN	SIGNAL
1	ANTENNA
2	SHIELD



J4	
PIN	SIGNAL
1	AUX AUDIO 1(+) OR SUBWOOFER(+) (OUTPUT) OR DSP-NAV(+)
2	AUX AUDIO 1(-) OR SUBWOOFER(-) (OUTPUT) OR DSP-NAV(-)
3	AUX AUDIO SHIELD OR SUBWOOFER SHIELD
4	AUX AUDIO 1 ENABLE OR SUBWOOFER ENABLE/CLIP DETECT DSP ENABLE
5	AUX AUDIO 2+ OR CENTER IMAGE(+)(OUTPUT)
6	AUX AUDIO 2- OR CENTER IMAGE(-)(OUTPUT)
7	AUX AUDIO 2 SHIELD OR CENTER IMAGE SHIELD
8	AUX AUDIO 2 ENABLE OR CENTER IMAGE ENABLE/CLIP DETECT



J3	
PIN	SIGNAL
1	STEREO L(+) INPUT
2	STEREO L(-) INPUT
3	STEREO SHIELD
4	MONO+ OR PHONE MONO+
5	MONO- OR PHONE MONO-
6	STEREO 2 R(+)(INPUT) OR (NC RESERVED)
7	STEREO 2 L(+)(INPUT) OR (NC RESERVED)
8	STEREO 2 L(-)(INPUT) OR (NC RESERVED)
9	STEREO R+(INPUT)
10	STEREO R-(INPUT)
11	MICROPHONE IN(+) OR (NC RESERVED)
12	MICROPHONE IN(-) OR (NC RESERVED)
13	MONO SHIELD
14	STEREO 2 R(-)(INPUT) OR (NC RESERVED)
15	MS CAN H OR (+)
16	MS CAN L OR (-)



J1	
PIN	SIGNAL
1	BATTERY(CAT3)
2	RUN/ACCESS
3	ILLUMINATION+
4	ILLUMINATION-
5	SWITCH B+ POWER OUTPUT
6	REVERSE GEAR SENSE(MANUAL TRANSMISSION) INPUT OR (NC RESERVED)
7	PHONE TRANSCEIVER ACTIVE(PTA)
8	LF SPEAKER+(CAT2) L(+)(OUTPUT)
9	LR SPEAKER+(CAT2)(OUTPUT)
10	RR SPEAKER+(CAT2)(OUTPUT)
11	RF SPEAKER+(CAT2) R(+)(OUTPUT)
12	RF SPEAKER-(CAT2) R(-)(OUTPUT)
13	POWER GROUND(CAT3)
14	VEHICLE SPEED
15	START
16	STEERING WHEEL CONTROL 2 RTN OR (NC RESERVED)
17	STEERING WHEEL CONTROL 2(+) OR (NC RESERVED)
18	STEERING WHEEL CONTROL 1 SWC+
19	STEERING WHEEL CONTROL 1 SWC-
20	REVERSE PARK AID
21	LF SPEAKER-(CAT2) DSP L(-)(OUTPUT)
22	LR SPEAKER-(CAT2)
23	RR SPEAKER-(CAT2)
24	AUDIO SHIELD

7.2 IC

K4S561632E-TL75
UPD705103GM-180S1
TC74LCX08FTS1
TC7SH04FUS1
PD6336C
TC74LCX245FTS1
TC7SH00FUS1
TC7SH08FUS1
TC74LCX541FTS1
TC74VHCT08AFTS1

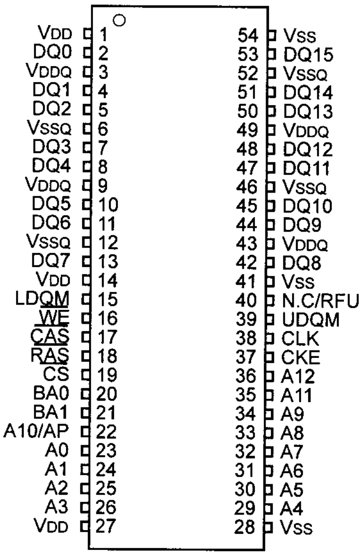
PEH001B
PEH002B
MB86291APFVS-G-DL
AK4351VT
AK5381VT
S-L2980A33MC-C6S
LM20BIM7
S-812C51AMC-C3F
UPD63761AGJ
PE5514A

BR93L56RFVM-W
S-812C33AMC-C2N
PE5430A
UPB1025K
ADC78H89CIMT
S-1112B15MC-L6A
PD3441A
S-80929CNNB-G8Z
PD6488C
PQ070XH01Z

S-93C66BD0I-J8
S-80837CNUA-B8W
PEG016A
PEG154A
TC74VHC08FTS1
TC74VHCT125AFTS1
AK4591VQ
AK7730AVT
GP2S700HC
TJA1041T

TDA7563
BD6171KV
S-29221BROI-J8T1
S-1131B25UC-N4K
TS8M1
PE5433A

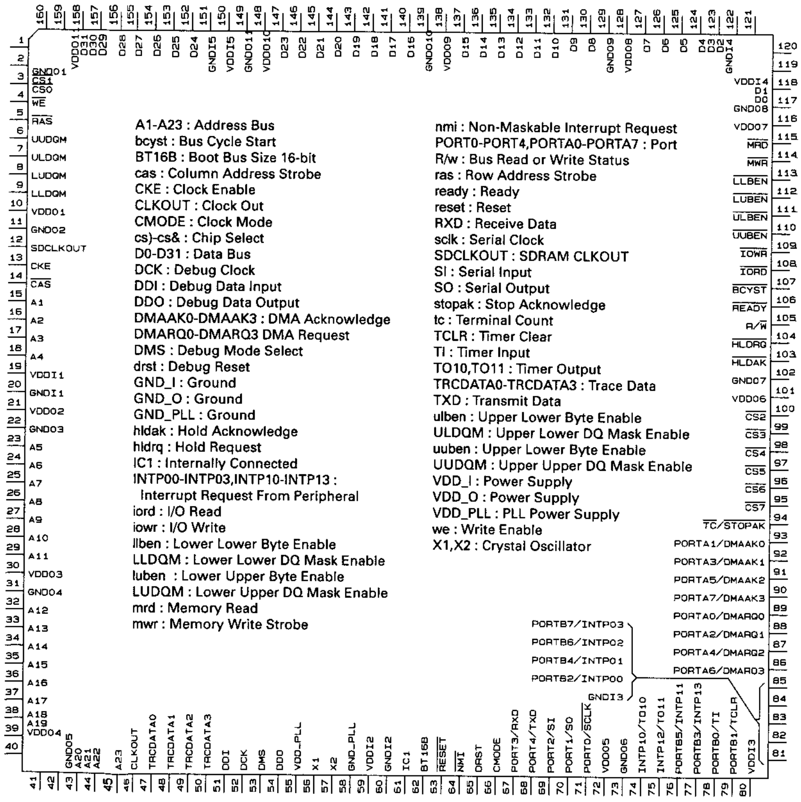
*K4S561632E-TL75


VDD 1
DQ0 2
VDDQ 3
DQ1 4
DQ2 5
VSSQ 6
DQ3 7
DQ4 8
VDDQ 9
DQ5 10
DQ6 11
VSSQ 12
DQ7 13
VDD 14
LDQM 15
WE 16
CAS 17
RAS 18
CS 19
BA0 20
BA1 21
A10/AP 22
A0 23
A1 24
A2 25
A3 26
VDD 27
54 Vss
53 DQ15
52 VSSQ
51 DQ14
50 DQ13
49 VDDQ
48 DQ12
47 DQ11
46 VSSQ
45 DQ10
44 DQ9
43 VDDQ
42 DQ8
41 Vss
40 N.C/RFU
39 UDQM
38 CLK
37 CKE
36 A12
35 A11
34 A9
33 A8
32 A7
31 A6
30 A5
29 A4
28 Vss

Pin	Name
CLK	System cock
CS	Chip select
CKE	Clock enable
A0~A12	Adress
BA0~BA1	Bank select address
RAS	Row address strobe
CAS	Column address strobe
WE	Write enable
L(U)DQM	Data input/output mask
DQ0~15	Data input/output
VDD/VSS	Power supply/ground
VDDQ/VSSQ	Data output power/ground
N.C/RFU	No connection /reserved for future use

IC's marked by * are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

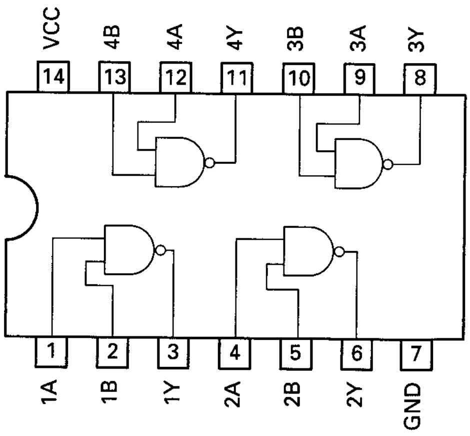
*UPD705103GM-180S1


GNDO1
CS1
CS0
WE
RAS
UUDQM
ULDQM
LUDQM
LLDQM
VDDO1
GNDO2
SDCLKOUT
CKE
CAS
A1
A2
A3
A4
VDDI1
GNDI1
VDDO2
GNDO3
A5
A6
A7
A8
A9
A10
A11
VDDO3
GNDO4
A12
A13
A14
A15
A16
A17
A18
A19
VDDO4
GNDO5
A20
A21
A22
A23
CLKOUT
TRCDATA0
TRCDATA1
TRCDATA2
TRCDATA3
DDI
DCK
DMS
DDO
VDD_PLL
X1
X2
GND_PLL
VDDI2
GNDI2
IC1
BT16B
RESET
NMI
DRST
CMODE
PORT3/RXD
PORT4/TXD
PORT2/SI
PORT1/SO
PORT0/SCLK
VDDO5
GNDO6
INTP10/TO10
INTP12/TO11
PORTB5/INTP11
PORTB3/INTP13
PORTB0/TI
PORTB1/TCLR
VDDI3
GNDI3
PORTB2/INTP00
PORTB4/INTP01
PORTB6/INTP02
PORTB7/INTP03
PORTA6/DMARQ3
PORTA4/DMARQ2
PORTA2/DMARQ1
PORTA0/DMARQ0
PORTA7/DMAAK3
PORTA5/DMAAK2
PORTA3/DMAAK1
PORTA1/DMAAK0
TC/STOPAK
CS7
CS6
CS5
CS4
CS3
CS2
VDDO6
GNDO7
HLDAK
HLDRQ
R/W
READY
BCYST
IORD
IOWR
UUBEN
ULBEN
LUBEN
LLBEN
MWR
MRD
VDDO7
GNDO8
D0
D1
VDDI4
GNDI4
D2
D3
D4
D5
D6
D7
VDDO8
GNDO9
D8
D9
D10
D11
D12
D13
D14
D15
VDDO9
GNDO10
D16
D17
D18
D19
D20
D21
D22
D23
VDDO10
GNDO11
VDDI5
GNDI5
D24
D25
D26
D27
D28
D29
D30
D31
VDDO11

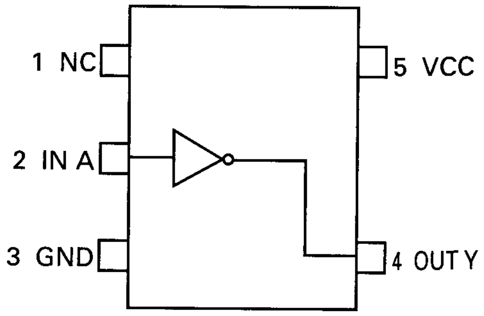
A1-A23 : Address Bus
bcyst : Bus Cycle Start
BT16B : Boot Bus Size 16-bit
cas : Column Address Strobe
CKE : Clock Enable
CLKOUT : Clock Out
CMODE : Clock Mode
cs)-cs& : Chip Select
D0-D31 : Data Bus
DCK : Debug Clock
DDI : Debug Data Input
DDO : Debug Data Output
DMAAK0-DMAAK3 : DMA Acknowledge
DMARQ0-DMARQ3 DMA Request
DMS : Debug Mode Select
drst : Debug Reset
GND_I : Ground
GND_O : Ground
GND_PLL : Ground
hldak : Hold Acknowledge
hldrq : Hold Request
IC1 : Internally Connected
INTP00-INTP03,INTP10-INTP13 :
Interrupt Request From Peripheral
iord : I/O Read
iowr : I/O Write
llben : Lower Lower Byte Enable
LLDQM : Lower Lower DQ Mask Enable
luben : Lower Upper Byte Enable
LUDQM : Lower Upper DQ Mask Enable
mrd : Memory Read
mwr : Memory Write Strobe

nmi : Non-Maskable Interrupt Request
PORT0-PORT4,PORTA0-PORTA7 : Port
R/w : Bus Read or Write Status
ras : Row Address Strobe
ready : Ready
reset : Reset
RXD : Receive Data
sclk : Serial Clock
SDCLKOUT : SDRAM CLKOUT
SI : Serial Input
SO : Serial Output
stopak : Stop Acknowledge
tc : Terminal Count
TCLR : Timer Clear
TI : Timer Input
TO10,TO11 : Timer Output
TRCDATA0-TRCDATA3 : Trace Data
TXD : Transmit Data
ulben : Upper Lower Byte Enable
ULDQM : Upper Lower DQ Mask Enable
uuben : Upper Lower Byte Enable
UUDQM : Upper Upper DQ Mask Enable
VDD_I : Power Supply
VDD_O : Power Supply
VDD_PLL : PLL Power Supply
we : Write Enable
X1,X2 : Crystal Oscillator

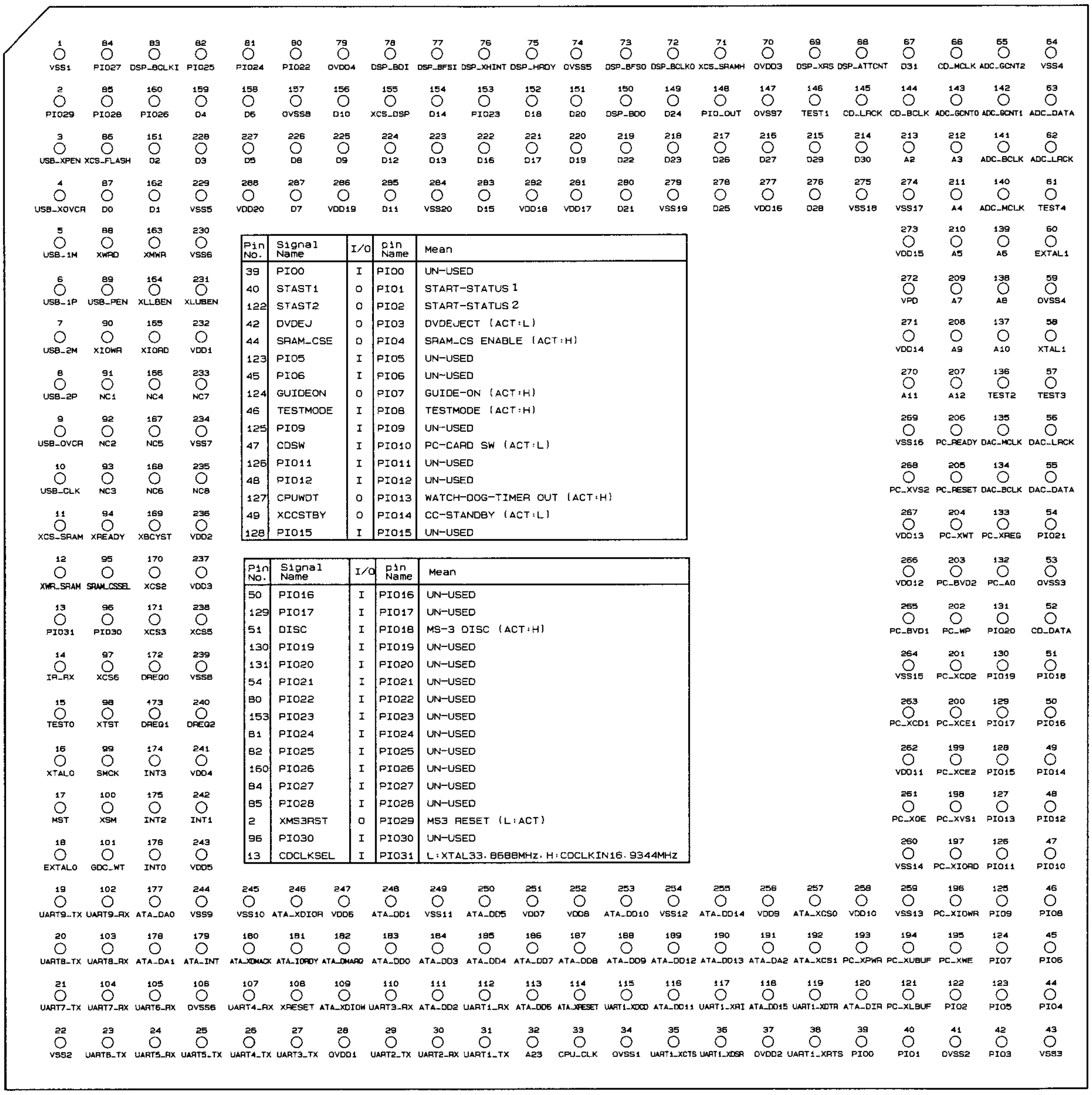
*TC74LCX08FTS1


VCC
4B
4A
4Y
3B
3A
3Y
14
13
12
11
10
9
8
1
2
3
4
5
6
7
1A
1B
1Y
2A
2B
2Y
GND

*TC7SH04FUS1


1 NC
2 IN A
3 GND
5 VCC
4 OUT Y

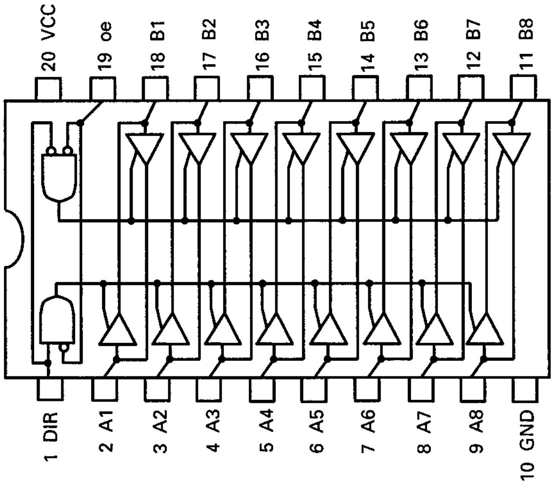
*PD6336C


1 VSS1
84 PIO27
83 DSP_BCLKI
82 PIO25
81 PIO24
80 PIO22
79 OVDD4
78 DSP_BDI
77 DSP_BFSI
76 DSP_XHINT
75 DSP_HRDY
74 OVSS5
73 DSP_BFSO
72 DSP_BCLKO
71 XCS_SRAMH
70 OVDD3
69 DSP_XRS
68 DSP_ATTCNT
67 D31
66 CD_MCLK
65 ADC_GCNT2
64 VSS4
2 PIO29
85 PIO28
160 PIO26
159 D4
158 D6
157 OVSS8
156 D10
155 XCS_DSP
154 D14
153 PIO23
152 D18
151 D20
150 DSP_BDO
149 D24
148 PIO_OUT
147 OVSS7
146 TEST1
145 CD_LRCK
144 CD_BCLK
143 ADC_GCNT0
142 ADC_GCNT1
63 ADC_DATA
3 USB_XPEN
86 XCS_FLASH
161 D2
228 D3
227 D5
226 D8
225 D9
224 D12
223 D13
222 D16
221 D17
220 D19
219 D22
218 D23
217 D26
216 D27
215 D29
214 D30
213 A2
212 A3
141 ADC_BCLK
62 ADC_LRCK
4 USB_XOVCR
87 D0
162 D1
229 VSS5
288 VDD20
287 D7
286 VDD19
285 D11
284 VSS20
283 D15
282 VDD18
281 VDD17
280 D21
279 VSS19
278 D25
277 VDD16
276 D28
275 VSS18
274 VSS17
211 A4
140 ADC_MCLK
61 TEST4
5 USB_1M
88 XWRD
163 XMWR
230 VSS6
273 VDD15
210 A5
139 A6
60 EXTAL1
6 USB_1P
89 USB_PEN
164 XLLBEN
231 XLUBEN
272 VPD
209 A7
138 A8
59 OVSS4
7 USB_2M
90 XIOWR
165 XIORD
232 VDD1
271 VDD14
208 A9
137 A10
58 XTAL1
8 USB_2P
91 NC1
166 NC4
233 NC7
270 A11
207 A12
136 TEST2
57 TEST3
9 USB_OVCR
92 NC2
167 NC5
234 VSS7
269 VSS16
206 PC_READY
135 DAC_MCLK
56 DAC_LRCK
10 USB_CLK
93 NC3
168 NC6
235 NC8
268 PC_XVS2
205 PC_RESET
134 DAC_BCLK
55 DAC_DATA
11 XCS_SRAM
94 XREADY
169 XBCYST
236 VDD2
267 VDD13
204 PC_XWT
133 PC_XREG
54 PIO21
12 XWR_SRAM
95 SRAM_CSSEL
170 XCS2
237 VDD3
266 VDD12
203 PC_BVD2
132 PC_A0
53 OVSS3
13 PIO31
96 PIO30
171 XCS3
238 XCS5
265 PC_BVD1
202 PC_WP
131 PIO20
52 CD_DATA
14 IR_RX
97 XCS6
172 DREQ0
239 VSS8
264 VSS15
201 PC_XCD2
130 PIO19
51 PIO18
15 TEST0
98 XTST
473 DREQ1
240 DREQ2
263 PC_XCD1
200 PC_XCE1
129 PIO17
50 PIO16
16 XTALO
99 SMCK
174 INT3
241 VDD4
262 VDD11
199 PC_XCE2
128 PIO15
49 PIO14
17 MST
100 XSM
175 INT2
242 INT1
261 PC_XOE
198 PC_XVS1
127 PIO13
48 PIO12
18 EXTALO
101 GDC_WT
176 INT0
243 VDD5
260 VSS14
197 PC_XIORD
126 PIO11
47 PIO10
19 UART9_TX
102 UART9_RX
177 ATA_DA0
244 VSS9
245 VSS10
246 ATA_XDIOR
247 VDD6
248 ATA_DD1
249 VSS11
250 ATA_DD5
251 VDD7
252 VDD8
253 ATA_DD10
254 VSS12
255 ATA_DD14
256 VDD9
257 ATA_XCS0
258 VDD10
259 VSS13
196 PC_XIOWR
125 PIO9
46 PIO8
20 UART8_TX
103 UART8_RX
178 ATA_DA1
179 ATA_INT
180 ATA_XDMACK
181 ATA_IORDY
182 ATA_DMARQ
183 ATA_DD0
184 ATA_DD3
185 ATA_DD4
186 ATA_DD7
187 ATA_DD8
188 ATA_DD9
189 ATA_DD12
190 ATA_DD13
191 ATA_DA2
192 ATA_XCS1
193 PC_XPWR
194 PC_XUBUF
195 PC_XWE
124 PIO7
45 PIO6
21 UART7_TX
104 UART7_RX
105 UART6_RX
106 OVSS6
107 UART4_RX
108 XRESET
109 ATA_XDIOW
110 UART3_RX
111 ATA_DD2
112 UART1_RX
113 ATA_DD6
114 ATA_XRESET
115 UART1_XDCD
116 ATA_DD11
117 UART1_XRI
118 ATA_DD15
119 UART1_XDTR
120 ATA_DIR
121 PC_XLBUF
122 PIO2
123 PIO5
44 PIO4
22 VSS2
23 UART6_TX
24 UART5_RX
25 UART5_TX
26 UART4_TX
27 UART3_TX
28 OVDD1
29 UART2_TX
30 UART2_RX
31 UART1_TX
32 A23
33 CPU_CLK
34 OVSS1
35 UART1_XCTS
36 UART1_XDSR
37 OVDD2
38 UART1_XRTS
39 PIO0
40 PIO1
41 OVSS2
42 PIO3
43 VSS3

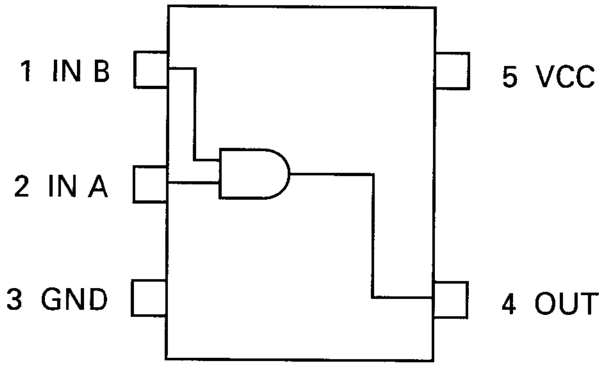
Pin No.	Signal Name	I/O	pin Name	Mean
39	PIO0	I	PIO0	UN-USED
40	STAST1	O	PIO1	START-STATUS 1
122	STAST2	O	PIO2	START-STATUS 2
42	DVDEJ	O	PIO3	DVDEJECT (ACT:L)
44	SRAM_CSE	O	PIO4	SRAM_CS ENABLE (ACT:H)
123	PIO5	I	PIO5	UN-USED
45	PIO6	I	PIO6	UN-USED
124	GUIDEON	O	PIO7	GUIDE-ON (ACT:H)
46	TESTMODE	I	PIO8	TESTMODE (ACT:H)
125	PIO9	I	PIO9	UN-USED
47	CDSW	I	PIO10	PC-CARD SW (ACT:L)
126	PIO11	I	PIO11	UN-USED
48	PIO12	I	PIO12	UN-USED
127	CPUWDT	O	PIO13	WATCH-DOG-TIMER OUT (ACT:H)
49	XCCSTBY	O	PIO14	CC-STANDBY (ACT:L)
128	PIO15	I	PIO15	UN-USED

Pin No.	Signal Name	I/O	pin Name	Mean
50	PIO16	I	PIO16	UN-USED
129	PIO17	I	PIO17	UN-USED
51	DISC	I	PIO18	MS-3 DISC (ACT:H)
130	PIO19	I	PIO19	UN-USED
131	PIO20	I	PIO20	UN-USED
54	PIO21	I	PIO21	UN-USED
80	PIO22	I	PIO22	UN-USED
153	PIO23	I	PIO23	UN-USED
81	PIO24	I	PIO24	UN-USED
82	PIO25	I	PIO25	UN-USED
160	PIO26	I	PIO26	UN-USED
84	PIO27	I	PIO27	UN-USED
85	PIO28	I	PIO28	UN-USED
2	XMS3RST	O	PIO29	MS3 RESET (L:ACT)
96	PIO30	I	PIO30	UN-USED
13	CDCLKSEL	I	PIO31	L:XTAL33.8688MHz, H:CDCLKIN16.9344MHz

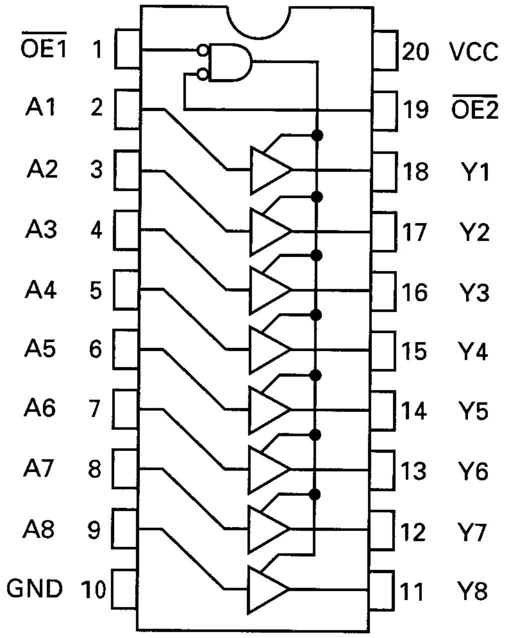
*TC74LCX245FTS1


20 VCC
19 oe
18 B1
17 B2
16 B3
15 B4
14 B5
13 B6
12 B7
11 B8
1 DIR
2 A1
3 A2
4 A3
5 A4
6 A5
7 A6
8 A7
9 A8
10 GND

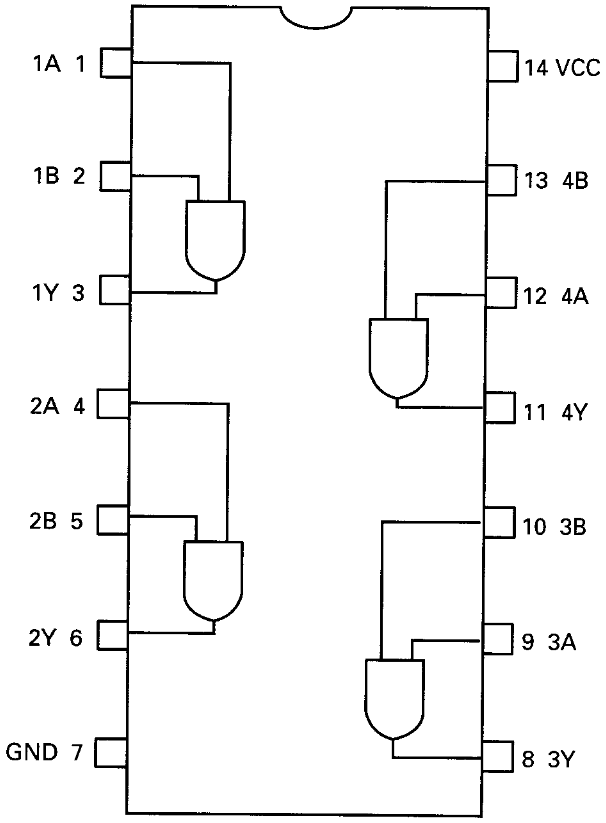
*TC7SH00FUS1
*TC7SH08FUS1


1 IN B
2 IN A
3 GND
5 VCC
4 OUT

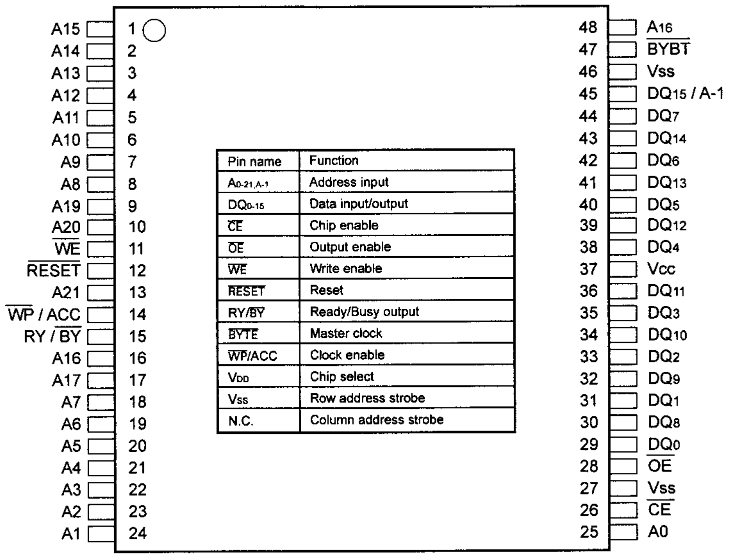
*TC74LCX541FTS1


OE1 1
A1 2
A2 3
A3 4
A4 5
A5 6
A6 7
A7 8
A8 9
GND 10
20 VCC
19 OE2
18 Y1
17 Y2
16 Y3
15 Y4
14 Y5
13 Y6
12 Y7
11 Y8

*TC74VHCT08AFTS1

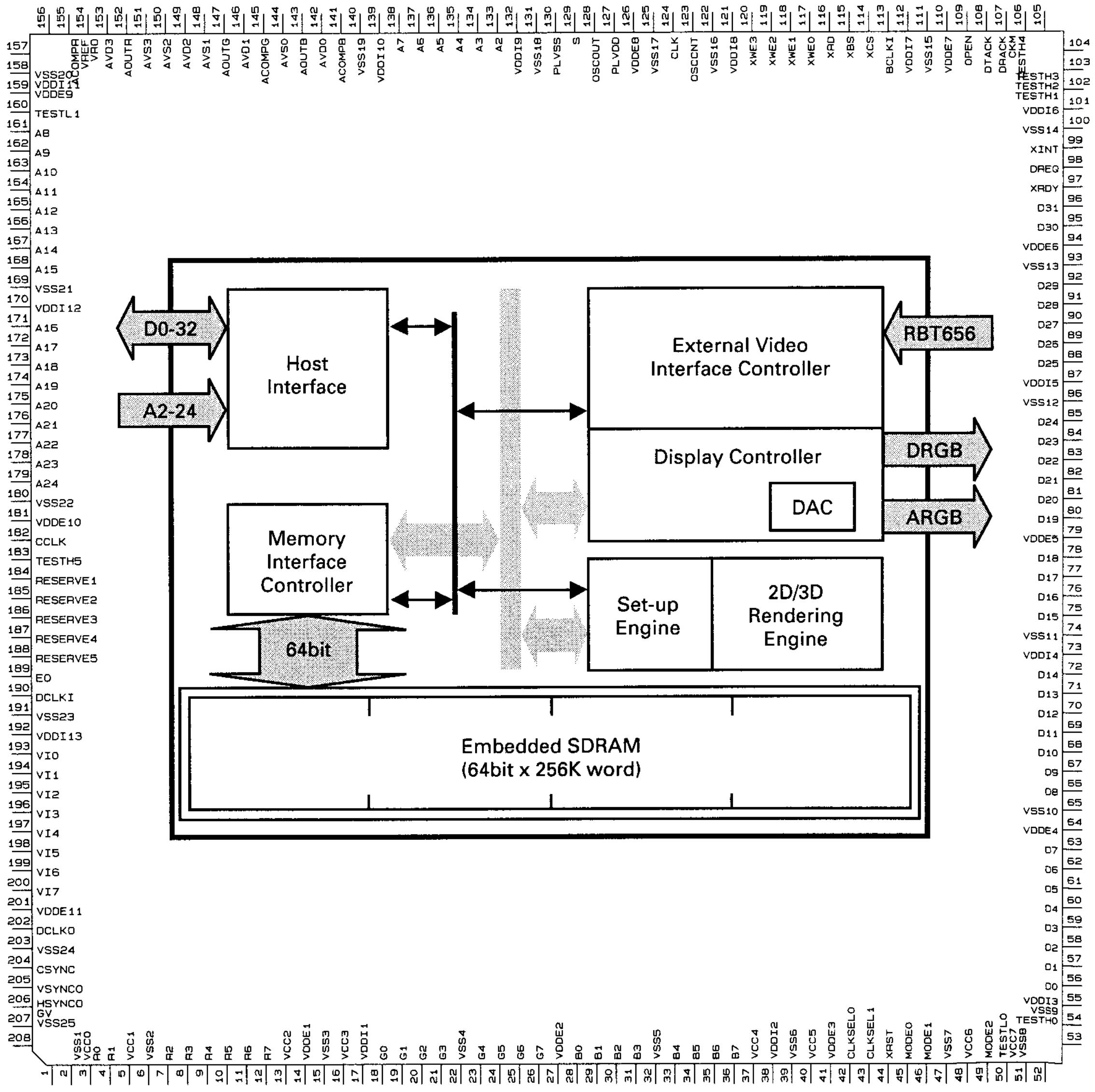

1A 1
1B 2
1Y 3
2A 4
2B 5
2Y 6
GND 7
14 VCC
13 4B
12 4A
11 4Y
10 3B
9 3A
8 3Y

*PEH001B
*PEH002B


A15
A14
A13
A12
A11
A10
A9
A8
A19
A20
WE
RESET
A21
WP / ACC
RY / BY
A16
A17
A7
A6
A5
A4
A3
A2
A1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
25
A16
BYBT
Vss
DQ15 / A-1
DQ7
DQ14
DQ6
DQ13
DQ5
DQ12
DQ4
Vcc
DQ11
DQ3
DQ10
DQ2
DQ9
DQ1
DQ8
DQ0
OE
Vss
CE
A0

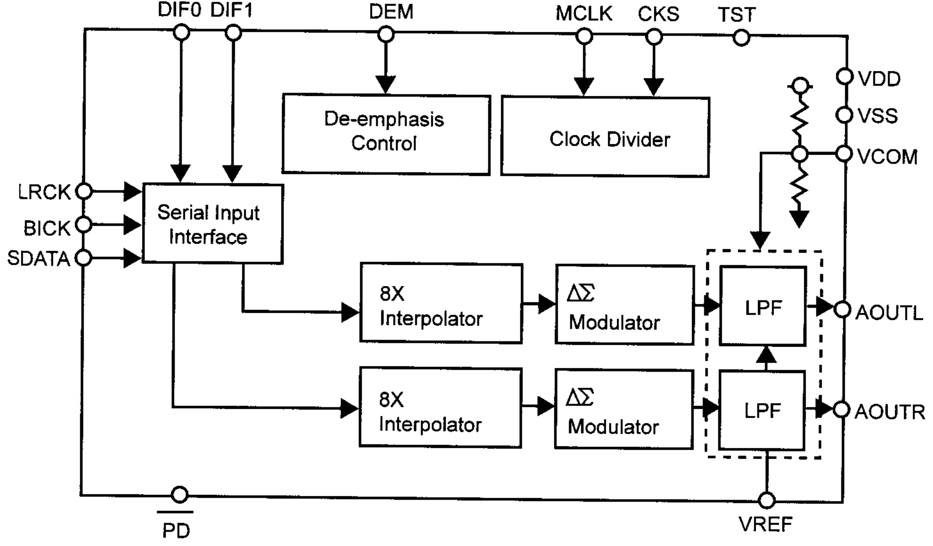
Pin name	Function
$A_{0-21, A-1}$	Address input
DQ_{0-15}	Data input/output
$\overline{CE}$	Chip enable
$\overline{OE}$	Output enable
$\overline{WE}$	Write enable
$\overline{RESET}$	Reset
RY/$\overline{BY}$	Ready/Busy output
$\overline{BYTE}$	Master clock
$\overline{WP}$/ACC	Clock enable
V_{DD}	Chip select
V_{SS}	Row address strobe
N.C.	Column address strobe

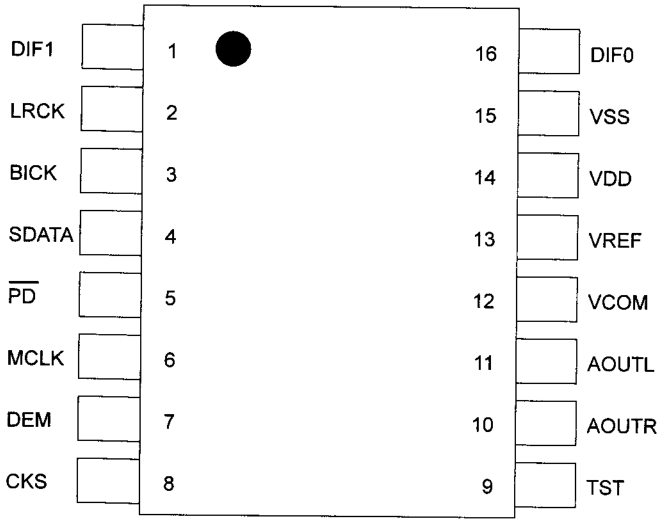
*MB86291APFVS-G-DL


ACOMPR
VREF
VRO
AVD3
AOUTR
AVS3
AVS2
AVD2
AVS1
AOUTG
AVD1
ACOMPG
AVS0
AOUTB
AVD0
ACOMPB
VSS19
VDDI10
A7
A6
A5
A4
A3
A2
VDDI9
VSS18
PLVSS
S
OSCOUT
PLVDD
VDDE8
VSS17
CLK
OSCCNT
VSS16
VDDI8
XWE3
XWE2
XWE1
XWE0
XRD
XBS
XCS
BCLKI
VDDI7
VSS15
VDDE7
OPEN
DTACK
DRACK
CKM
TESTH4
TESTH3
TESTH2
TESTH1
VDDI6
VSS14
XINT
DREQ
XRDY
D31
D30
VDDE6
VSS13
D29
D28
D27
D26
D25
VDDI5
VSS12
D24
D23
D22
D21
D20
D19
VDDE5
D18
D17
D16
D15
VSS11
VDDI4
D14
D13
D12
D11
D10
D9
D8
VSS10
VDDE4
D7
D6
D5
D4
D3
D2
D1
D0
VDDI3
VSS9
TESTH0
VSS20
VDDI11
VDDE9
TESTL1
A8
A9
A10
A11
A12
A13
A14
A15
VSS21
VDDI12
A16
A17
A18
A19
A20
A21
A22
A23
A24
VSS22
VDDE10
CCLK
TESTH5
RESERVE1
RESERVE2
RESERVE3
RESERVE4
RESERVE5
EO
DCLKI
VSS23
VDDI13
VI0
VI1
VI2
VI3
VI4
VI5
VI6
VI7
VDDE11
DCLKO
VSS24
CSYNC
VSYNCO
HSYNCO
GV
VSS25
VSS1
VCC0
R0
R1
VCC1
VSS2
R2
R3
R4
R5
R6
R7
VCC2
VDDE1
VSS3
VCC3
VDDI1
G0
G1
G2
G3
VSS4
G4
G5
G6
G7
VDDE2
B0
B1
B2
B3
VSS5
B4
B5
B6
B7
VCC4
VDDI2
VSS6
VCC5
VDDE3
CLKSEL0
CLKSEL1
XRST
MODE0
MODE1
VSS7
VCC6
MODE2
TESTL0
VCC7
VSS8
D0-32
A2-24
Host Interface
Memory Interface Controller
64bit
External Video Interface Controller
Display Controller
DAC
Set-up Engine
2D/3D Rendering Engine
Embedded SDRAM (64bit x 256K word)
RBT656
DRGB
ARGB

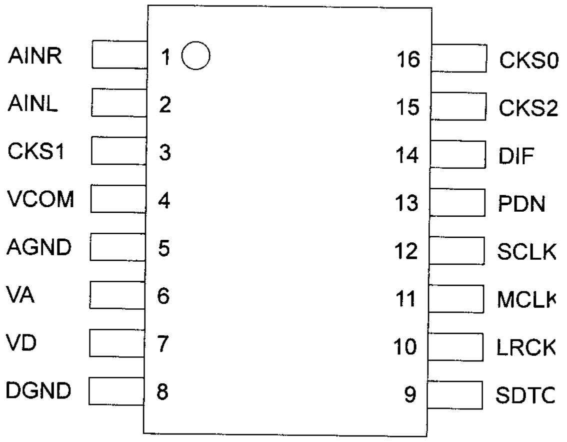
AK4351VT

● Block Diagram

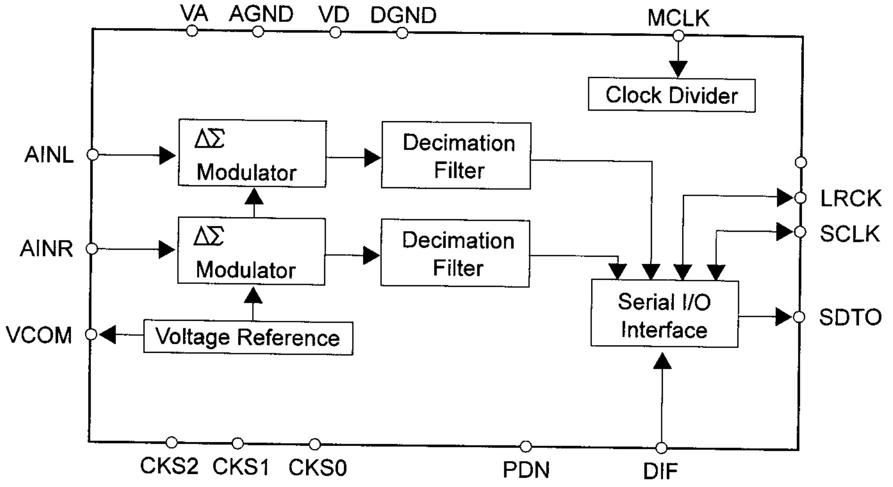

DIF0
DIF1
DEM
MCLK
CKS
TST
VDD
VSS
VCOM
De-emphasis Control
Clock Divider
LRCK
BICK
SDATA
Serial Input Interface
8X Interpolator
ΔΣ Modulator
LPF
AOUTL
8X Interpolator
ΔΣ Modulator
LPF
AOUTR
PD
VREF


DIF1 1
LRCK 2
BICK 3
SDATA 4
PD 5
MCLK 6
DEM 7
CKS 8
16 DIF0
15 VSS
14 VDD
13 VREF
12 VCOM
11 AOUTL
10 AOUTR
9 TST

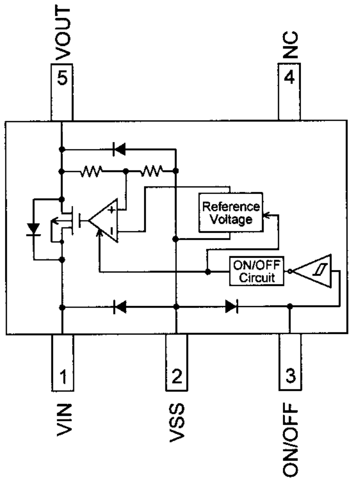
AK5381VT


AINR 1
AINL 2
CKS1 3
VCOM 4
AGND 5
VA 6
VD 7
DGND 8
16 CKS0
15 CKS2
14 DIF
13 PDN
12 SCLK
11 MCLK
10 LRCK
9 SDTC

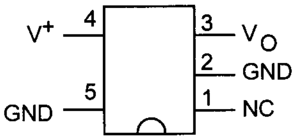
● Block Diagram

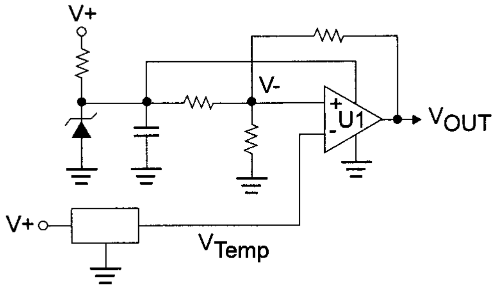

VA
AGND
VD
DGND
MCLK
Clock Divider
AINL
ΔΣ Modulator
Decimation Filter
AINR
ΔΣ Modulator
Decimation Filter
LRCK
SCLK
Serial I/O Interface
SDTO
VCOM
Voltage Reference
CKS2
CKS1
CKS0
PDN
DIF

*S-L2980A33MC-C6S

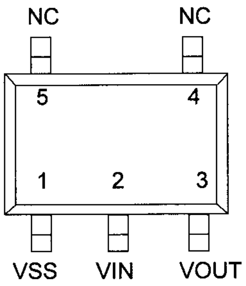

VOUT
5
NC
4
Reference Voltage
ON/OFF Circuit
1
2
3
VIN
VSS
ON/OFF

*LM20BIM7

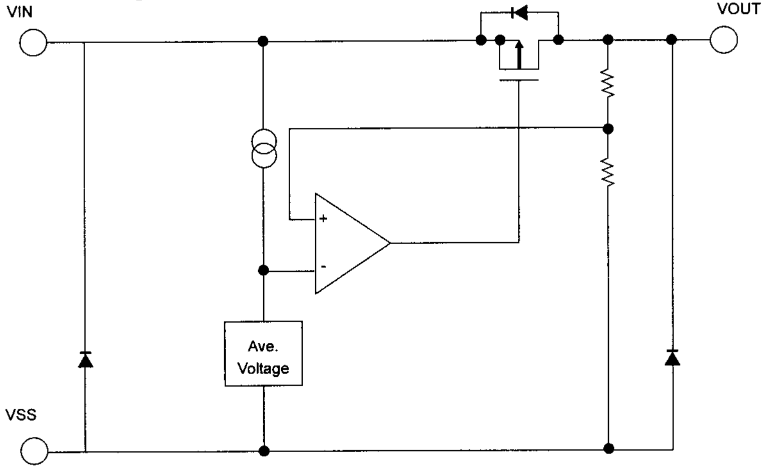

V+
4
GND
5
3
VO
2
GND
1
NC


V+
V-
U1
VOUT
V+
VTemp

*S-812C51AMC-C3F


NC
NC
5
4
1
2
3
VSS
VIN
VOUT

● Block Diagram

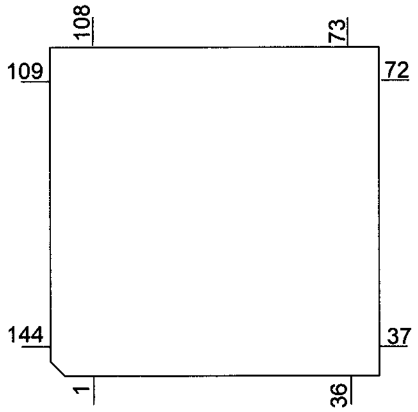

VIN
VOUT
+
-
Ave. Voltage
VSS

● Pin Functions(UPD63761GJ)

Pin No.	Pin Name	I/O	Function and Operation
1	D.VDD		Power supply for digital circuits
2	D1.GND		GND for 1.6V digital circuits
3	$\overline{\text{RESET}}$	I	Input of reset
4-8	AB12-8	I	Address bus 12-8 from the microcomputer
9-16	AD7-0	I/O	Address/data bus 7-0 to the microcomputer
17	$\overline{\text{CS}}$	I	Chip selection
18	ASTB	I	Address strobe
19	$\overline{\text{READ}}$	I	Control signals(read)
20	$\overline{\text{WRITE}}$	I	Control signals(write)
21	$\overline{\text{WAIT}}$	O	Control signals(wait)
22	INTQ	O	Interruption signals to the external microcomputer
23, 24	IFMODE0, 1	I	Switching the microcomputer I/F 0, 1
25	D1.VDD		Power supply for 1.6V digital circuits
26	DA.VDD		Power supply for DAC
27	ROUT	O	Output of audio for the right channel
28	DA.GND		GND for DAC
29	REGC		Connected to the capacitor for band gap
30	DA.GND		GND for DAC
31	LOUT	O	Output of audio for the left channel
32	DA.VDD		Power supply for DAC
33	X.VDD		Power supply for the crystal oscillator
34	XTAL	I	Connected to the crystal oscillator(16.9344MHz)
35	$\overline{\text{XTAL}}$	O	Connected to the crystal oscillator(16.9344MHz)
36	X.GND		Ground for the crystal oscillator
37	VDDREG15		Control of 1.6V regulator
38	PWMSW0	I	Setup 0 for PWM output(SD, MD)
39-41	TEST3-1	I	Connected to GND
42	PWMSW1	I	Setup 1 for PWM output(FD, TD)
43	TESTEN	I	Connected to GND
44	D1.GND		GND for 1.6V digital circuits
45	DIN	I	Input of audio data
46	DOUT	O	Output of audio data
47	SCKIN	I	Clock input for audio data
48	SCKO	O	Clock output for audio data
49	LRCKIN	I	Input of LRCK for audio data
50	LRCK	O	Output LRCK for audio data
51	$\overline{\text{XTALEN}}$	I	Permission to oscillate 16.9344MHz
52	D1.VDD		Power supply for 1.6V digital circuits
53	RFCK/HOLD	O	Output of RFCK/HOLD signal
54	WFCK/MIRR	O	Output of WFCK/MIRR signal
55	PLCK/RFOK	O	Output of PLCK/Output of RFOK
56	LOCK/RFOK	O	Output of LRCK/Output of RFOK
57	C1D1/C8M	O	Information on error correction/C8M : 8MHz
58	C1D2/C16M	O	Information on error correction/C16M : 16MHz
59	C2D1/RMUTE	O	Information on error correction/Mute for Rch
60	C2D2/LMUTE	O	Information on error correction/Mute for Lch
61	C2D3/SHOCK	O	Information on error correction/Detection of vibration
62	D1.GND		GND for 1.6V digital circuits
63	C33M	O	Output of 33.8688MHz(CLK for SDRAM)
64	($\overline{\text{RCS}}$)	O	DRAM $\overline{\text{CS}}$
65	RA11	O	Output of DRAM address 11
66	(CKE)	O	Output of DRAM CKE
67	$\overline{\text{RAS}}$	O	Output of DRAM $\overline{\text{RAS}}$
68	$\overline{\text{CAS0}}$(LDQM)	O	Output of DRAM lower $\overline{\text{CAS}}$(LDQM)
69	$\overline{\text{CAS1}}$(UDQM)	O	Output of DRAM upper $\overline{\text{CAS}}$(UDQM)
70	$\overline{\text{WE}}$	O	Output of DRAM $\overline{\text{WE}}$
71	$\overline{\text{OE}}$($\overline{\text{CAS}}$)	O	Output of DRAM $\overline{\text{OE}}$($\overline{\text{CAS}}$)
72	D.GND		Ground for digital circuits
73-88	RDB0-15	I/O	Input/output of DRAM data0-15
89-99	RA0-10	O	Output of DRAM address0-10

Pin No.	Pin Name	I/O	Function and Operation
100	D.VDD		Power supply for digital circuits
101	FD+	O	Output of focus drive PWM +
102	FD-	O	Output of focus drive PWM -
103	TD+	O	Output of tracking drive PWM +
104	TD-	O	Output of tracking drive PWM -
105	SD+	O	Output of thread drive PWM +
106	SD-	O	Output of thread drive PWM -
107	MD+	O	Output of spindle drive PWM +
108	MD-	O	Output of spindle drive PWM -
109	REFOUTSV	O	REFOUT for servo
110	AD.VDD		Power supply for ADC
111	EFM	O	Output of EFM signals
112	ASY	I	Input of asymmetry
113	ATEST	O	Analog tests
114	RFI	I	Input of RF
115	AD.GND		Ground for the analog system
116	AGCO	O	Output of RF
117	C3T	O	Connection to the capacitor for detecting 3T
118	AGCI	I	Input of AGC
119	RFO	O	Output of RF(AGC)
120, 121	EQ2, 1	I	Equalizer 2, 1
122	RF2-	I	Reversal input of RF2
123	RF-	I	Reversal input of RF
124	A.GND		Ground for the analog system
125	A	I	Input of A
126	C	I	Input of C
127	B	I	Input of B
128	D	I	Input of D
129	F	I	Input of F
130	E	I	Input of E
131	VREFIN	I	Input of reference voltage
132	A.VDD		Power supply for the analog system
133	REFOUT	O	Output of reference voltage
134	REFC	I	Connected to the capacitor for output of REFOUT
135	FE-	I	Reversal input of FE
136	FEO	O	Output of FE
137	ADIN	I	Input of FE, TE A/D converter
138	TE-	I	Reversal input of TE
139	TEO	O	Output of TE
140	TE2	O	TE2
141	TEC	I	TEC
142	LD	O	Output of LD
143	PD	I	Input of PD
144	D.GND		Ground for digital circuits

*UPD63761AGJ

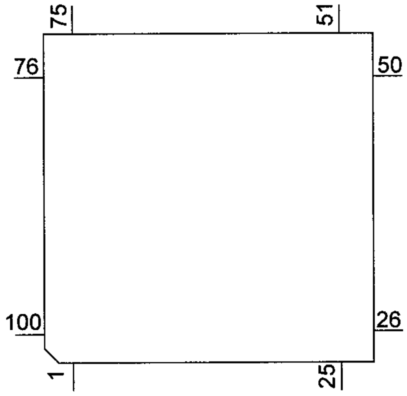


● Pin Functions(PE5514A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	AVREF			A power supply Positive power supply(5V)
2	AVSS			A power supply GND
3	EMP	O	C	The evaluation terminal for shocking proofs
4	CLAMP	I		Clamp SW sense input
5	EVDD			E power supply Positive power supply
6	CAMVOL	O	C	CAM motor driver output voltage change
7	E/LVOL1	O	C	ELV/LOAD motor driver output voltage change
8	IC/FLMD0			IC : VSS direct connection/FLMOD0 : Pull-down
9	VDD			Positive power supply(5V)
10	REGC			Connected to the capacity stabilizing output of the regulator
11	VSS			GND
12	X1	I		Oscillator connection for mainclock
13	X2			Oscillator connection for mainclock
14	$\overline{\text{RESET}}$	I		System reset input
15	XT1	I		Connected to the oscillator for subclock
16	XT2			Connected to the oscillator for subclock(Open)
17	PULLDOWN			Connected to EVDD or EVSS via the resistor
18	EMC			The evaluation terminal for shocking proofs
19	$\overline{\text{XINT}}$		C	CD LSI interruption signal input
20	NC			Connected to VSS via the resistor
21	$\overline{\text{CDSTBY}}$	I		IIC-Bus reset input
22	SDA	I		IIC-Bus serial data input
23	SCL	O	C	IIC-Bus serial data output
24	NC			Not used
25	FTXD	O	C	For flash rewriting(transmitted signal)
26	FRXD	I		For flash rewriting(received signal)
27	NC			Not used
28	$\overline{\text{CDSRQ}}$	I/O	/C	IIC-Bus request input/output
29	NC			Not used
30	E/LVOL2	O	C	ELV/LOAD motor driver output change
31	E/LREV	O	C	ELV/LOAD motor control output(REV)
32	E/LFWD	O	C	ELV/LOAD motor control output(FWD)
33	EVSS			E power supply GND
34	EVDD			E power supply Positive power supply
35-37	RAM0-2	O	C	RAM level output
38	SPDFG	I		SPDL FG pulse input
39-42	NC			Not used
43	INISW	I		Disc sense input for initialization
44	$\overline{\text{SVCONT}}$	O	C	Standard voltage change output
45	$\overline{\text{EPCS}}$	I		BBOX sense input
46	SPCONT	O	C	SPDL driver control output
47	CONT	O	C	Servo driver power supply control output
48	$\overline{\text{XRST}}$	O	C	CD LSI reset control output
49	VDCONT	O	C	VD power supply control output
50	ROMDATA	I/O	/C	E2PROM data input/output
51	ROMCS	O	C	E2PROM chip selection output
52	ROMCK	O	C	E2PROM clock output
53	EMPH	O	C	Emphasis infomation output
54	DSPMUT	O	C	DOUT mute output
55	CDMUTE	O	C	CD mute control output
56	$\overline{\text{CDEJECT}}$	I		It is EJECT at the time of L detection during 1 second
57	LOADSWL	I		Load operation sense input
58	LOADSWR	I		Load operation sense input
59	$\overline{\text{XCS}}$	O	C	CD LSI chip selection output
60	ROM1K	I		EEPROM 2k/1k change input
61	$\overline{\text{XWAIT}}$	I		CD LSI write control signal output
62	CLKOUT	O	C	Internal system clock output(Open)
63	LOCK	I		Spindle lock input
64	NC			Not used
65	$\overline{\text{XWRITE}}$	O		CD LSI write control signal output

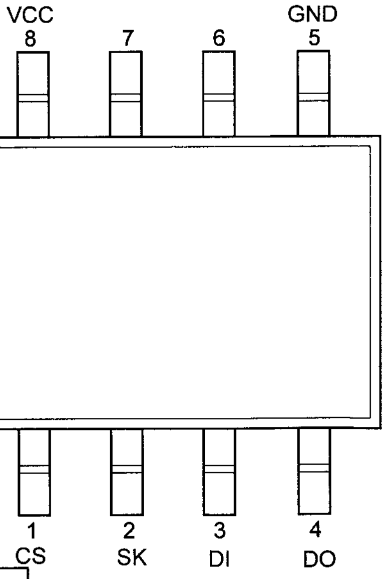
Pin No.	Pin Name	I/O	Format	Function and Operation
66	NC			Not used
67	$\overline{\text{XREAD}}$	O		CD LSI read control signal output
68	XASTB	O		CD LSI address strobe output
69	BVSS			B power supply GND
70	BVDD			B power supply Positive power supply
71-86	AD0-15	I/O	/C	Address/data Bus 0-15
87,88	NC			Not used
89	CAMREW	O	C	CAM motor control output
90	CAMFWD	O	C	CAM motor control output
91	LODPHT			Load operation photo sense
92	ELVSNS	I		ELV position select input
93	ELVREF			ELV sense reference voltage
94	CAMSNS	I		CAM position select input
95	CAMREF			CAM sense reference voltage
96	$\overline{\text{TESTIN}}$	I		Chip check test program starting input
97	HOME	I		Home SW sense input
98	TEMP			Temperature information sense input
99	VDSENS			VD power supply short sense input
100	NC			Not used

*PE5514A

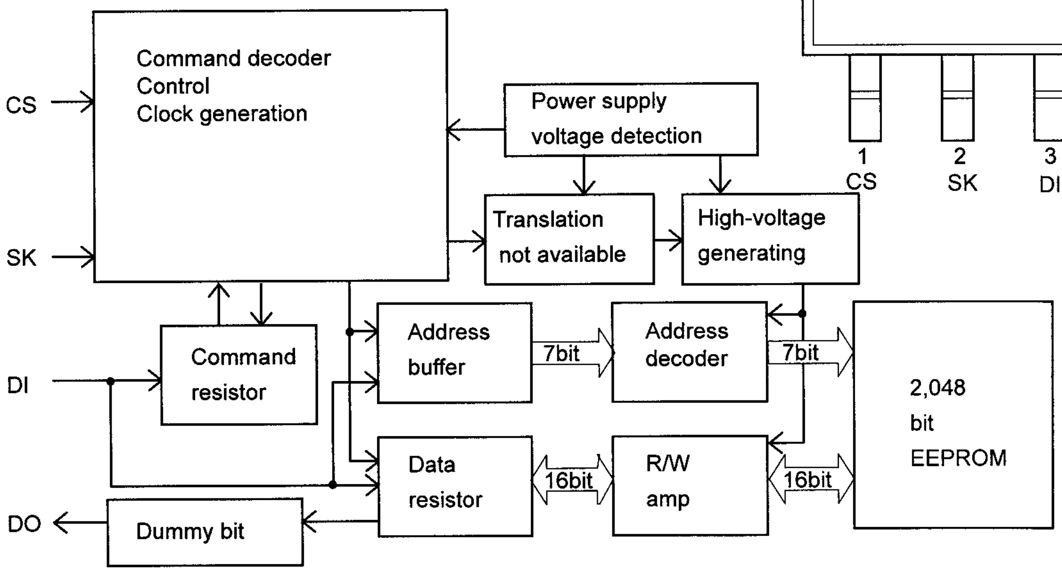

75
51
76
50
100
26
1
25

Format	Meaning
C	CMOS

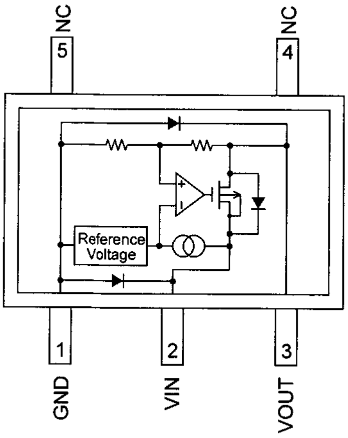
*BR93L56RFVM-W


VCC
8
7
6
GND
5
1
CS
2
SK
3
DI
4
DO

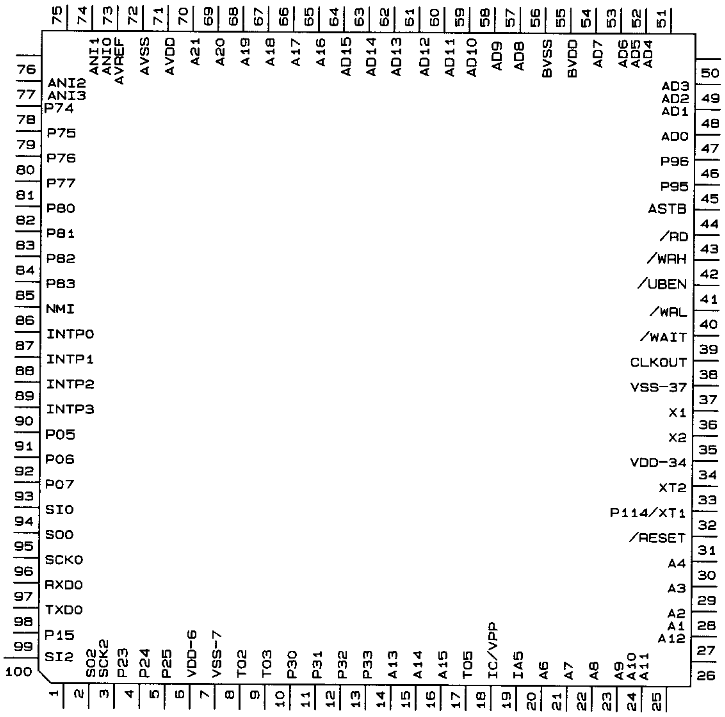
● Block Diagram


CS
SK
DI
DO
Command decoder
Control
Clock generation
Power supply
voltage detection
Translation
not available
High-voltage
generating
Command
resistor
Address
buffer
7bit
Address
decoder
7bit
2,048
bit
EEPROM
Data
resistor
16bit
R/W
amp
16bit
Dummy bit

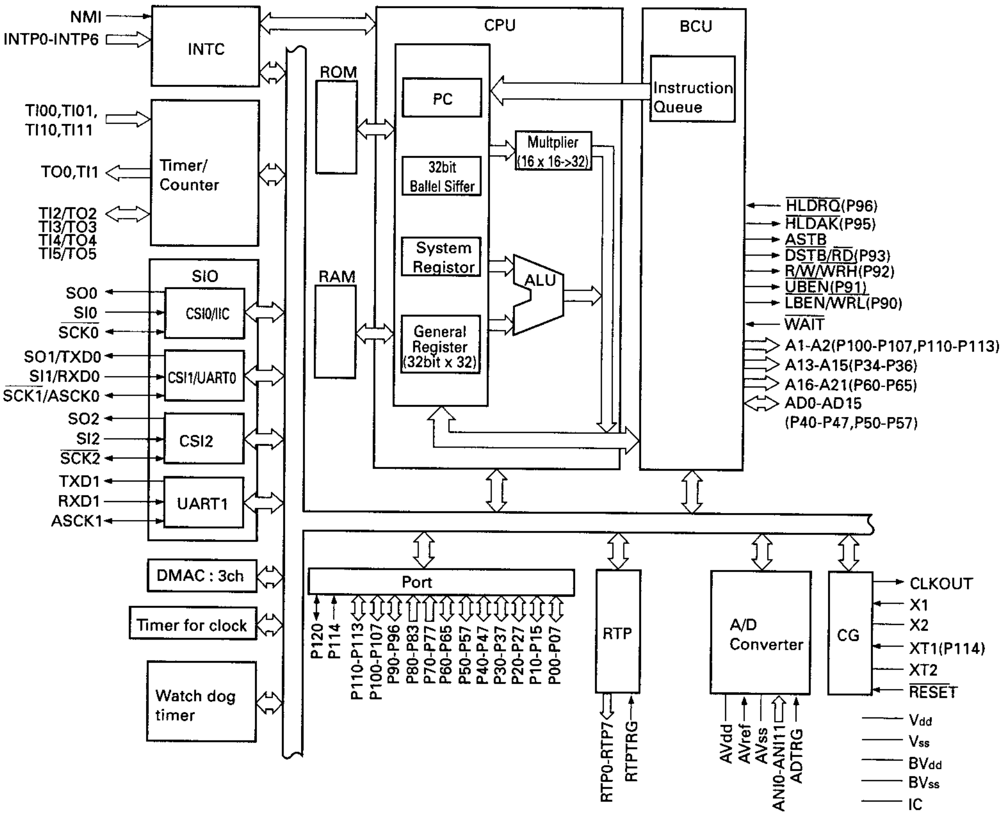
*S-812C33AMC-C2N


NC
5
NC
4
Reference Voltage
1
2
3
GND
VIN
VOUT

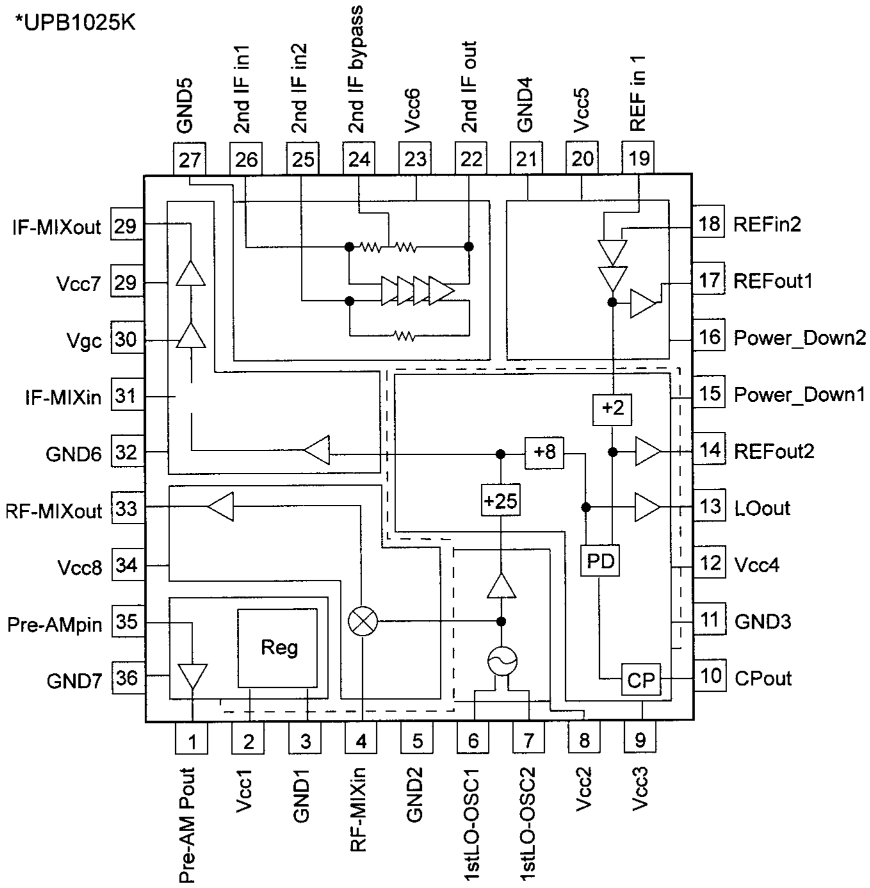
*PE5430A


75
74
73
72
71
70
69
68
67
66
65
64
63
62
61
60
59
58
57
56
55
54
53
52
51
ANI1
ANI0
AVREF
AVSS
AVDD
A21
A20
A19
A18
A17
A16
AD15
AD14
AD13
AD12
AD11
AD10
AD9
AD8
BVSS
BVDD
AD7
AD6
AD5
AD4
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
ANI2
ANI3
P74
P75
P76
P77
P80
P81
P82
P83
NMI
INTP0
INTP1
INTP2
INTP3
P05
P06
P07
SI0
SO0
SCK0
RXD0
TXD0
P15
SI2
50
49
48
47
46
45
44
43
42
41
40
39
38
37
36
35
34
33
32
31
30
29
28
27
26
AD3
AD2
AD1
AD0
P96
P95
ASTB
/RD
/WRH
/UBEN
/WRL
/WAIT
CLKOUT
VSS-37
X1
X2
VDD-34
XT2
P114/XT1
/RESET
A4
A3
A2
A1
A12
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
SO2
SCK2
P23
P24
P25
VDD-6
VSS-7
TO2
TO3
P30
P31
P32
P33
A13
A14
A15
TO5
IC/VPP
IA5
A6
A7
A8
A9
A10
A11

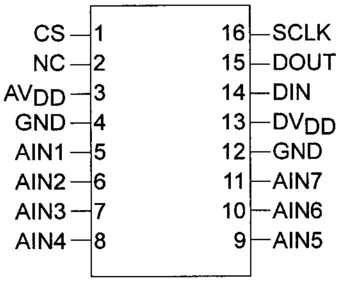
● Block Diagram


NMI
INTP0-INTP6
INTC
TI00,TI01,
TI10,TI11
TO0,TI1
Timer/
Counter
TI2/TO2
TI3/TO3
TI4/TO4
TI5/TO5
SIO
SO0
SI0
SCK0
CSI0/IIC
SO1/TXD0
SI1/RXD0
SCK1/ASCK0
CSI1/UART0
SO2
SI2
SCK2
CSI2
TXD1
RXD1
ASCK1
UART1
DMAC : 3ch
Timer for clock
Watch dog
timer
ROM
RAM
CPU
PC
32bit
Ballel Siffer
System
Registor
General
Register
(32bit x 32)
Multplier
(16 x 16->32)
ALU
BCU
Instruction
Queue
HLDRQ(P96)
HLDAK(P95)
ASTB
DSTB/RD(P93)
R/W/WRH(P92)
UBEN(P91)
LBEN/WRL(P90)
WAIT
A1-A2(P100-P107,P110-P113)
A13-A15(P34-P36)
A16-A21(P60-P65)
AD0-AD15
(P40-P47,P50-P57)
Port
P120
P114
P110-P113
P100-P107
P90-P96
P80-P83
P70-P77
P60-P65
P50-P57
P40-P47
P30-P37
P20-P27
P10-P15
P00-P07
RTP
RTP0-RTP7
RTPTRG
A/D
Converter
AVdd
AVref
AVss
ANI0-ANI11
ADTRG
CG
CLKOUT
X1
X2
XT1(P114)
XT2
RESET
Vdd
Vss
BVdd
BVss
IC

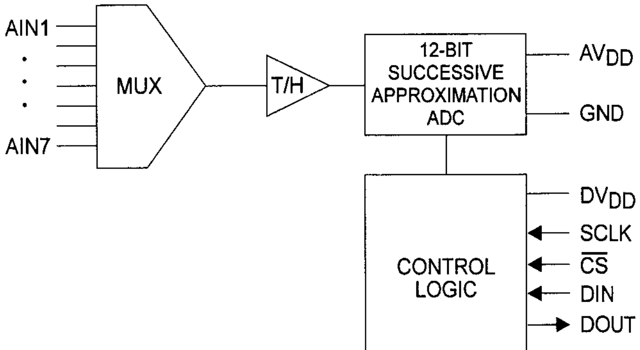
*UPB1025K


GND5
2nd IF in1
2nd IF in2
2nd IF bypass
Vcc6
2nd IF out
GND4
Vcc5
REF in 1
27
26
25
24
23
22
21
20
19
IF-MIXout 29
Vcc7 29
Vgc 30
IF-MIXin 31
GND6 32
RF-MIXout 33
Vcc8 34
Pre-AMpin 35
GND7 36
18 REFin2
17 REFout1
16 Power_Down2
15 Power_Down1
14 REFout2
13 LOout
12 Vcc4
11 GND3
10 CPout
+2
+8
+25
PD
CP
Reg
1
2
3
4
5
6
7
8
9
Pre-AM Pout
Vcc1
GND1
RF-MIXin
GND2
1stLO-OSC1
1stLO-OSC2
Vcc2
Vcc3

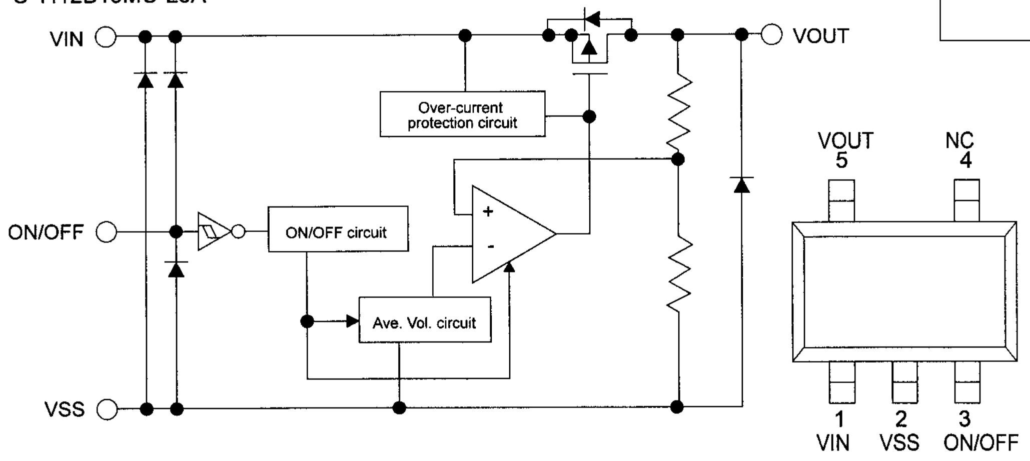
*ADC78H89CIMT


CS 1
NC 2
AVDD 3
GND 4
AIN1 5
AIN2 6
AIN3 7
AIN4 8
16 SCLK
15 DOUT
14 DIN
13 DVDD
12 GND
11 AIN7
10 AIN6
9 AIN5

● Block Diagram


AIN1
AIN7
MUX
T/H
12-BIT SUCCESSIVE APPROXIMATION ADC
AVDD
GND
CONTROL LOGIC
DVDD
SCLK
CS
DIN
DOUT
GND

*S-1112B15MC-L6A

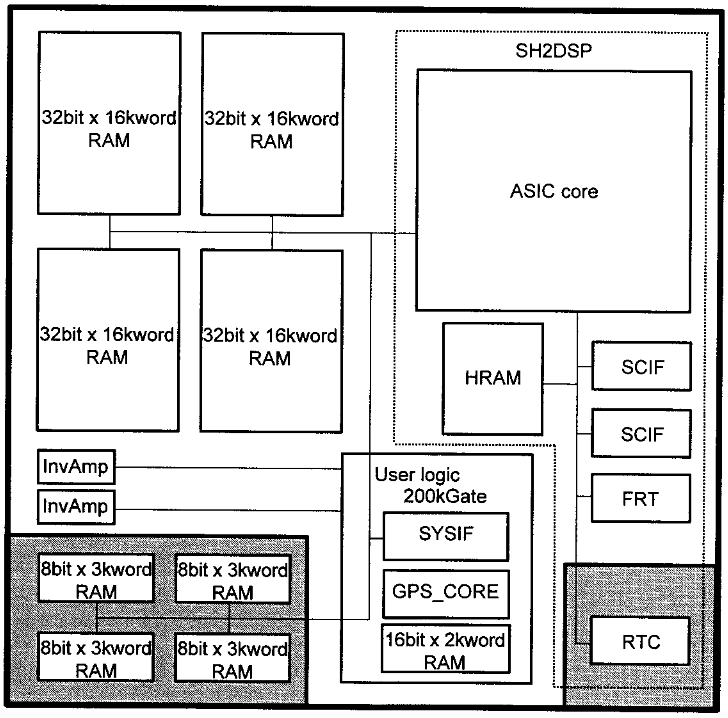

VIN
VOUT
Over-current protection circuit
ON/OFF
ON/OFF circuit
Ave. Vol. circuit
+
-
VSS
VOUT
5
NC
4
1
VIN
2
VSS
3
ON/OFF

*PD3441A

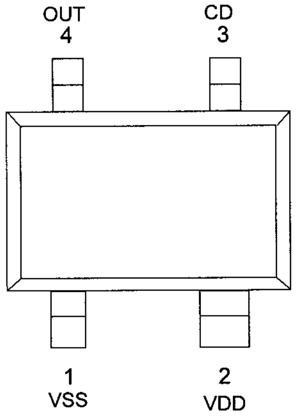
● Arrangement of pin

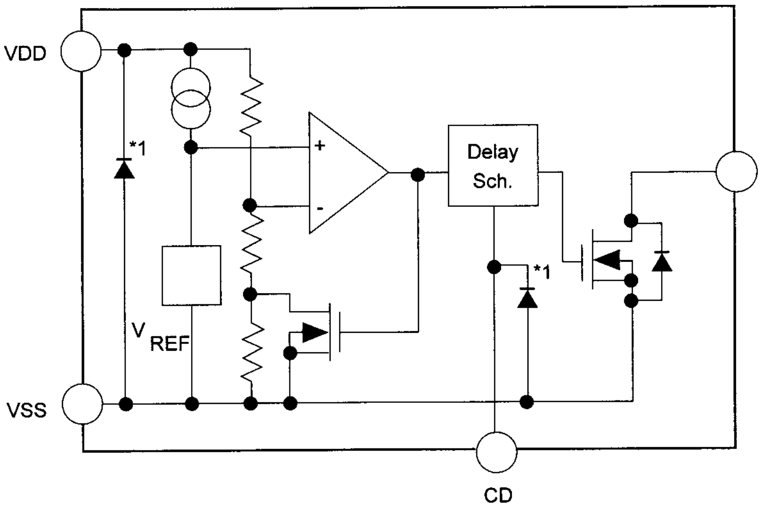
162 GND7	163 TCK	164 TEST1	165 CLKMD2	166 TESTN	167 ASBRKAKN	168 CKE	169 VccB	170 GND8	171 CS0B	172 D15	173 D12	174 D9	175 D6	176 GND9
147 TMS	148 TDI	149 TSTICN	150 TESTMSTR	151 CLKMD0	152 ASEMDON	153 RASN	154 CKIO	155 WE0B	156 CS5B	157 D14	158 D10	159 D7	160 Vcc7	161 D4
132 CCKSEL	133 TRSTN	134 TDO	135 TESTO	136 GND6	137 BSN	138 RDWRN	139 RDB	140 CS7B	141 Vdd5	142 D13	143 D8	144 D5	145 D3	146 D1
117 PLLVSS	118 PIO0	119 PCKSEL	120 TEST2	121 CLKMD1	122 CASN	123 Vss5	124 WE1B	125 CS6B	126 AHN	127 D11	128 D2	129 Vss6	130 D0	131 A0
109 PIO3	110 PIO2	111 PIO1	112 PLLVCC								113 A1	114 A4	115 A2	116 A3
101 CRCK	102 CCKGND	103 CCKVCC	104 Vcc6								105 Vdd4	106 A7	107 A5	108 A6
93 WAITN	94 TEST3	95 VBBN	96 Vss4								97 Vcc5	98 A10	99 A8	100 A9
85 XAUXIN	86 XAUXOUT	87 Vdd3	88 VBBENABLE								89 A13	90 A12	91 GND5	92 A11
77 ASEBRKN	78 IFGND	79 TEST4	80 Vss3								81 A17	82 A16	83 A14	84 A15
69 CCKDIR	70 GND4	71 IFVCC	72 IFO								73 A21	74 A20	75 A18	76 A19
61 PIO4	62 PIO5	63 TESTCK	64 Vdd2								65 CS4B	66 GND3	67 Vss2	68 Vcc4
46 PIO6	47 IF1	48 Vcc3	49 BOWWOWB	50 PWM	51 PLTX	52 PLIO2	53 DDSCK	54 GND2	55 RXD0	56 TIOA1	57 IRQ4B	58 RTCVCC	59 STANBYB	60 BUVDD
31 PIO7	32 ADCSB	33 ADRXD	34 ADIO1	35 PLCE	36 PLRX	37 DDINTB	38 DDTX	39 DDIO1	40 Vss1	41 SCICK	42 MSRESETB	43 RTCSTANBYB	44 XRTCOUT	45 BUVCC
16 ADSCK	17 ADTXD	18 ADIO0	19 SPEED	20 Vcc1	21 PLIO1	22 Vdd1	23 DDIO0	24 TXD0	25 RXD1	26 Vcc2	27 TIOB1	28 IRQ5B	29 RTCCK16	30 XRTCIN
1 GND1	2 ADSRX	3 ADIO2	4 PLINTB	5 PLSCK	6 PLIO0	7 DDCE	8 DDRX	9 DDIO2	10 TXD1	11 TIOA0	12 TIOB0	13 RESETB	14 NMI	15 RTCGND

● Block Diagram


32bit x 16kword RAM
32bit x 16kword RAM
32bit x 16kword RAM
32bit x 16kword RAM
SH2DSP
ASIC core
HRAM
SCIF
SCIF
FRT
InvAmp
InvAmp
User logic 200kGate
SYSIF
GPS_CORE
16bit x 2kword RAM
8bit x 3kword RAM
8bit x 3kword RAM
8bit x 3kword RAM
8bit x 3kword RAM
RTC

*S-80929CNNB-G8Z


OUT
4
CD
3
1
VSS
2
VDD

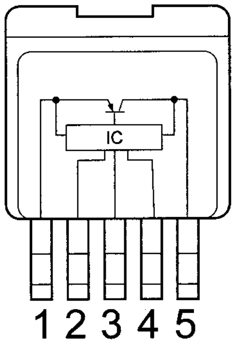

VDD
*1
+
-
Delay
Sch.
OUT
*1
V REF
VSS
CD

*PD6488C

A6 A_{13}	B6 A_{12}	C6 A_{14}	D6 A_{15}	E6 A_{16}	F6 $\overline{BYTE}$	G6 DQ_{15}/A_{-1}	H6 Vss
A5 A_9	B5 A_8	C5 A_{10}	D5 A_{11}	E5 DQ_7	F5 DQ_4	G5 DQ_{13}	H5 DQ_6
A4 $\overline{WE}$	B4 $\overline{RESET}$	C4 N.C.	D4 N.C.	E4 DQ_5	F4 DQ_{12}	G4 Vcc	H4 DQ_4
A3 RY/$\overline{BY}$	B3 N.C.	C3 NC.	D3 N.C.	E3 DQ_2	F3 DQ_{10}	G3 DQ_{11}	H3 DQ_3
A2 A_7	B2 A_{17}	C2 A_6	D2 A_5	E2 DQ_0	F2 DQ_8	G2 DQ_9	H2 DQ_1
A1 A_3	B1 A_4	C1 A_2	D1 A_1	E1 A_0	F1 $\overline{CE}$	G1 $\overline{OE}$	H1 Vss

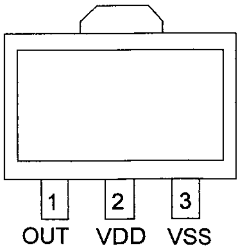
Pin No.	Pin Name	Pin No.	Pin Name
A_{17}-A_0,A_{-1}	Address input	RY / $\overline{BY}$	Ready/Busy output
DQ_{15}-DQ_0	Data input/output	$\overline{BYTE}$	8bit,16bit mode change
$\overline{CE}$	Chip enable	Vss	GND
$\overline{OE}$	Output enable	Vcc	Power supply
$\overline{WE}$	Write enable	N.C.	No connection
$\overline{RESET}$	Reset		

*PQ070XH01Z

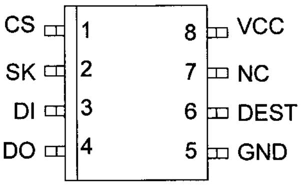


1.Vin
2.VC
3.VO
4.VCO
5.GND

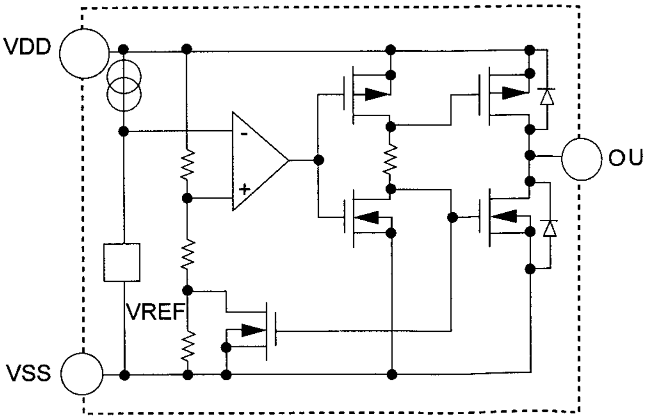
*S-80837CNUA-B8W


1
2
3
OUT
VDD
VSS

*S-93C66BD0I-J8


CS
1
SK
2
DI
3
DO
4
8
VCC
7
NC
6
DEST
5
GND

Pin No.	Pin Name	Pin No.	Pin Name
CS	Chip select input	GND	GND
SK	Serial clock input	TEST	TEST
DI	Serial data input	NC	No connection
DO	Serial data output	VCC	Power supply


VDD
-
+
OU
VREF
VSS

Pin Functions(PEG016A,PEG154A)

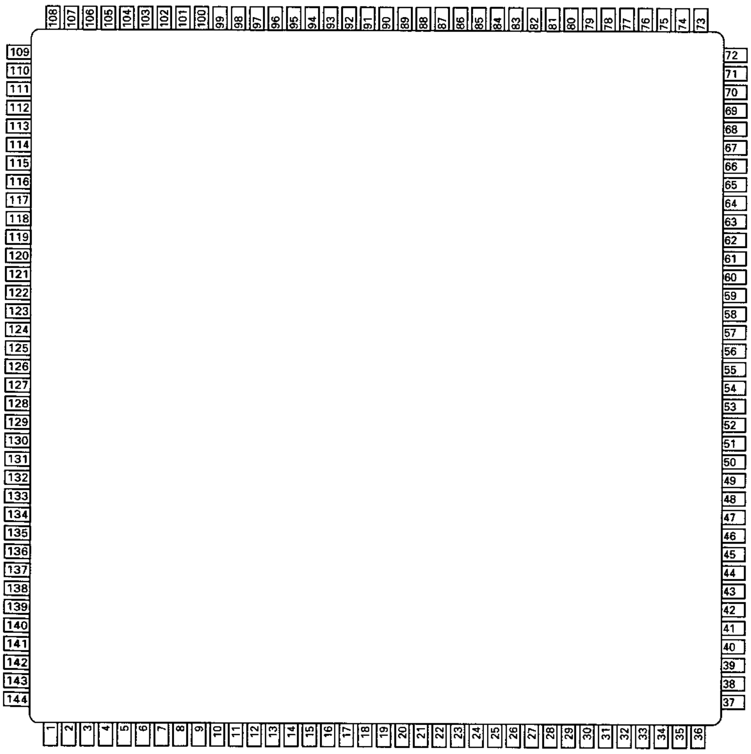
Pin No.	Pin Name	I/O	C	Function and Operation
1	SYSTOM	O	C	Monitor UART output
2	SWBPWR	O	C	SWD+B power control output
3	PWMIN	I	C	ILM PWM input
4	NC			Not used
5	DSP_OUT	O	C	DSP data output
6	DSP_IN	I	C	DSP data input
7	DSP_CK	O	C	DSP clock output
8	CAN_EN	O	C	CAN driver enable
9	CAN_WKOUT	O	C	CAN driver local wakeup output
10	CAN_STBY	O	C	CAN driver sleep mode Output
11	CAN_ERR	I	C	CAN driver error input
12	SPEED	I		Speed pulse
13	ILMINT	I		Illumination interrupt (RUN common INT)
14	ROTINT	I		Rotary interrupt
15	BYTE			FLASH writing
16	CNVss	I		FLASH writing
17,18	NC			Not used
19	RESET	I		U-COM reset
20	XOUT			X'tal (16MHz)
21	Vss			GND
22	XIN			X'tal (16MHz)
23	Vcc1-1			VCC5V
24	NC			Not used
25	RCK	I		RBDS clock input
26	CAN_RX	I		CAN communication input
27	CAN_TX	O		CAN communication output
28	9VSENS	O		+B 9V sense
29	NC			Not used
30	10VSENS	O		+B 10V sense
31	FANCNT	O		Rotation control of FAN
32	ROTIN0	I	C	Rotary encoder pulse Input
33	INV_PULSE	O		Inverter pulse for LCD
34	ROTIN1	I	C	Rotary encoder pulse Input
35	BEEP	O	C	Beep output
36	I2C_CLK	O		I2C-BUS clock output
37	I2C_SDA	I/O		I2C-BUS data input/output
38	OCD_TX	O		Soft IE-BUS & On chip debug & Flash writing
39	Vcc1			Vcc1
40	OCD_RX	I		Soft IE-BUS & On chip debug & Flash writing
41	Vss			Vss
42	OCD_CK	O		Soft IE-BUS & On chip debug & Flash writing
43	FCONT	O		AM DC/DC frequency control
44	PDO	O	C	Tuner PLL/ DA IC data output
45	PDI	I	C	Tuner PLL data input
46	PCK	O	C	Tuner PLL/DA IC clock output
47	CPUWDT	I		GPS watch dog input
48	RSTOUT	O		CC reset output
49	IRQPWR	O	C	Bup Off output
50	DRAMPW	O		SDRAM power control
51	CCON	O		Car control power
52	GUIDEON	I		Guide on signal
53	XCCFOK	I		Navi OFF OK
54	FLASH_WR1	O		FLASH writing
55	FANPWR	O		Fan power
56	SWACPW	O		Monitor power output
57	Vss3			VSS
58	AM ON	O		AM audio control
59	Vss2			VSS
60	TIMEOUT	I		CC time out forced cancellation
61	AMPCLPIN	I	C	Amp Clip Input

Pin No.	Pin Name	I/O	C	Function and Operation
62	ROMCS0	O	C	EPROM chip enable
63	ROMCLK0	O	C	EEPROM clock output
64	ROMDATA0	O	C	IEEPROM data input/output
65	FLASH WR2	O		FLASH writing
66	START	I		Start signal detect
67	PLLCE	O	C	Tuner : PLL chip enable
68	PLLCE2	O	C	Tuner : PLL chip enable
69	RDS_HSLK	I	C	RBDS HSLK input
70	RDSLK	I	C	RBDS RDSLK input
71	RDT	I	C	RBDS data input
72	CD_RST	O		G3 CD reset
73	CD_STBY	O		G3 CD STBY
74	Vcc2			VCC
75	CD_SRQ	O		G3 CD communication request
76	Vss4			VSS
77	CDC_MUTE	O	C	CODEC mute output
78	CDC_RQ	O	C	CODEC chip select output
79	CDC_SRST	O	C	CODEC system reset output
80	CDC_IRST	O	C	CODEC initial reset output
81	DSP_RDY	I	C	DSP ready input
82	DSP_DRDY	I	C	DSP data ready input
83	DSP_RQ	O	C	DSP request output
84	DSP_SRST	O	C	DSP system reset output
85	DSP_IRST	O	C	DSP intial reset output
86	AUX1_MUTE	O	C	AUX1 mute(SW/GUIDE)
87	AUX2_MUTE	O	C	AUX2 mute(Center image)
88	BEEP_GAIN	O	C	BEEP gain contlor (Internal or remote) Low : internal AMP,Hi : remote AMP
89,90	NC			Not used
91	Vcc2			VCC
92	AUX1_CLPIN	I	C	AUX1 clip input
93	Vss5			VSS
94	NC			Not used
95	TUN_WC	I	C	Digital tuner EEPROM write port
96	NC			Not used
97	CD_EJECT	I		G3 eject key sense
98	WAKEUP	I		Power ON key
99	PTAIN	I	C	PTA input
100	CD_LOAD	I	C	VCD load key sense(common INT)
101	AUX2 CLPIN	I	C	AUXÇQ clip input
102	RUN	I		Common INT sense (WAKE_UP,CD_EJECT,CD_LOAD,ILMINT)
103	BSENS	I		Battery sense
104	ASENS	I		Accessory sense
105	AUX1ENABLE	O	C	AUX1 enable
106	AUX2ENABLE	O	C	AUX2 enable
107	MOT0	O	C	Motor 1
108	MOT1	I		Motor 2
109	NC			Not used
110	TESTIN	I	C	Chip test mode IN
111	RPAIN	I	C	Parking aid input
112	CD_PWR	O		G3 Mecha. power output
113	SYSPWR	O	C	System power output
114	MOTPWR	O		Motor power
115	AMP_STBY	O		INTER AMP STBY control
116	CTOSYS	I		CC UART data input
117	HOMESW	I		Monitor home switch
118	SYSTOC	O		CC UART data output
119	OPENSW	I		Monitor open switch
120	PULS1	I		Flap pulse 1
121	PNLXV	O		Touch panel X power control
122	PNLYV	O		Touch panel Y power control

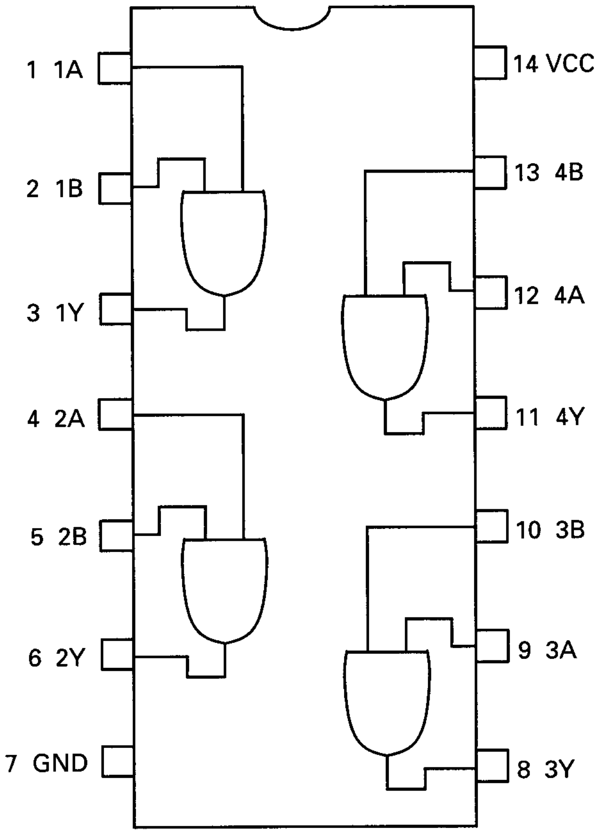
Pin No.	Pin Name	I/O	C	Function and Operation
123	PNLADY	I		Touch panel AD input Y
124	PNLADX	I		Touch panel AD input X
125	ILMDCIN	I		Illumination DC input
126	SWC1_IN	I		SWC Inmput 1
127	SWC2_IN	I		SWC Inmput 2
128	CDC_IN	I	C	CODEC data input
129	CDC_SLK	O	C	CODEC clock output
130	Vss			VSS
131	CDC_OUT	O	C	CODEC data output
132	Vcc1			VCC
133-138	NC			Not used
139	SL	I		Tuner SL level
140	Avss			AVSS
141	NC			Not used
142	Vref			VREF
143	Avcc			AVCC
144	MTOSYS	I		Monitor UART input

Format	Meaning
C	CMOS

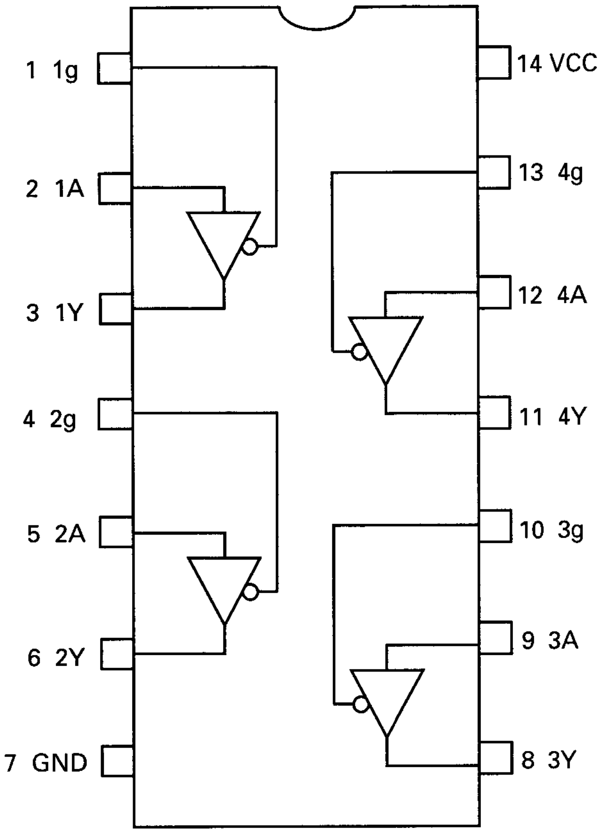
*PEG016A,PEG154A


108 107 106 105 104 103 102 101 100 99 98 97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73
109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144
72 71 70 69 68 67 66 65 64 63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

*TC74VHC08FTS1

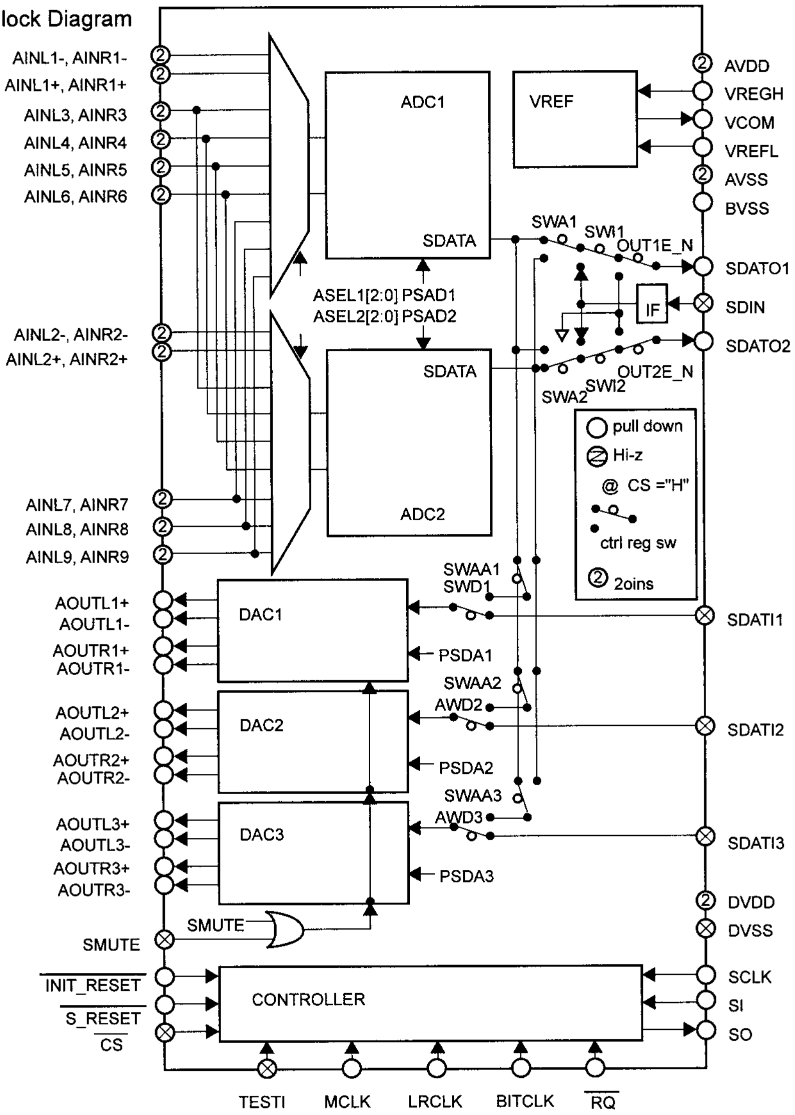

1 1A
2 1B
3 1Y
4 2A
5 2B
6 2Y
7 GND
14 VCC
13 4B
12 4A
11 4Y
10 3B
9 3A
8 3Y

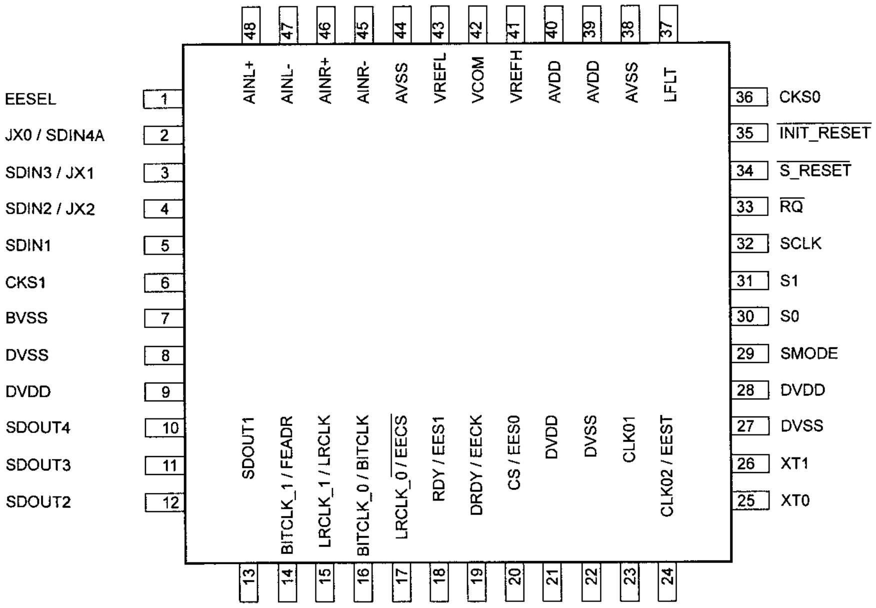
*TC74VHCT125AFTS1


1 1g
2 1A
3 1Y
4 2g
5 2A
6 2Y
7 GND
14 VCC
13 4g
12 4A
11 4Y
10 3g
9 3A
8 3Y

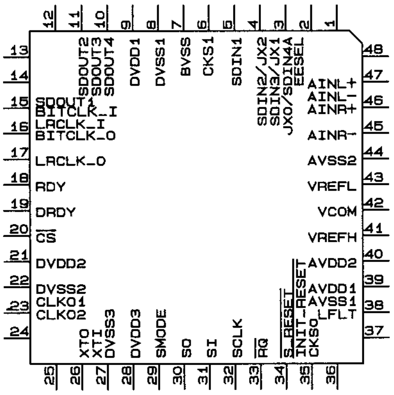
*AK4591VQ

● Block Diagram

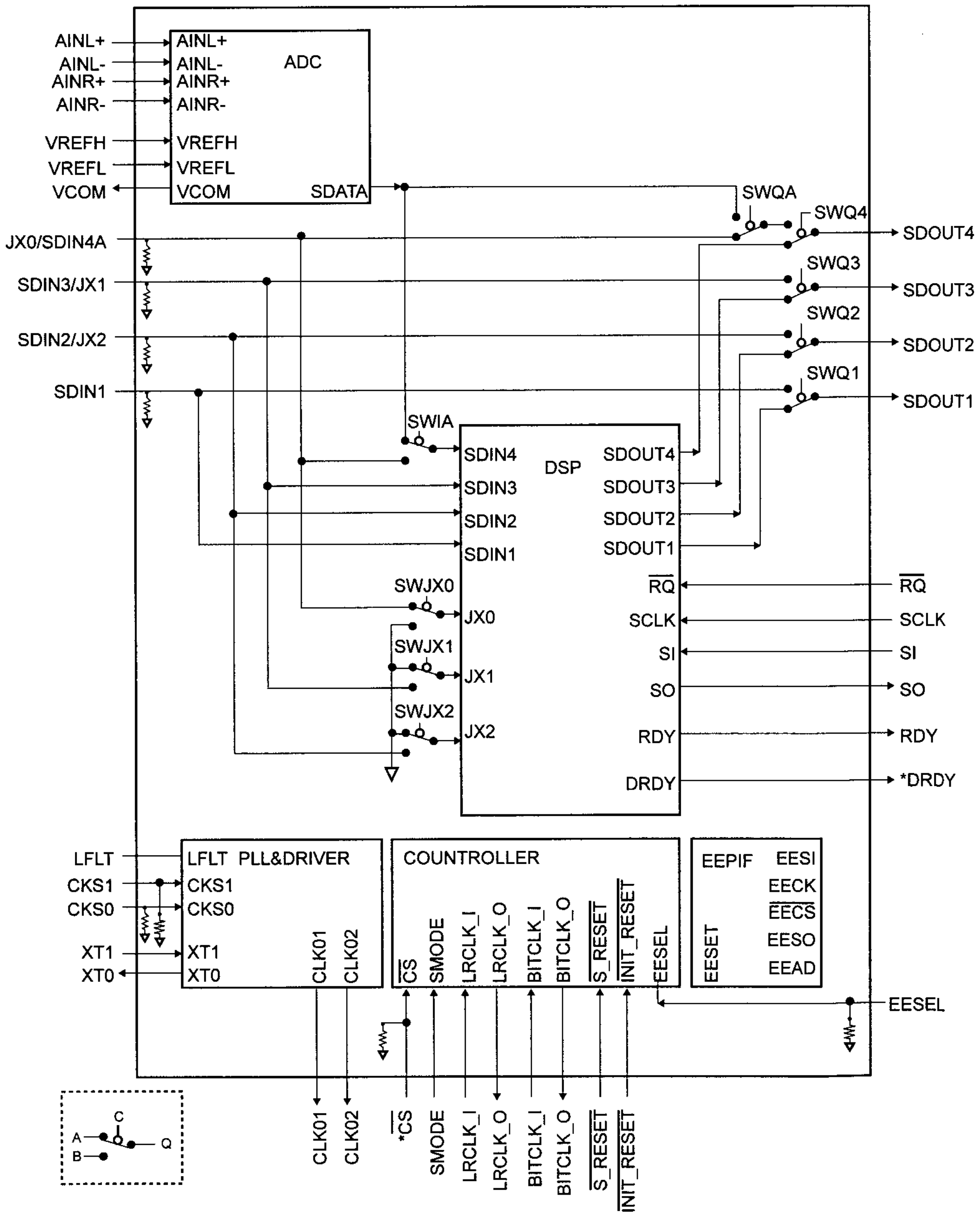

AINL1-, AINR1-
AINL1+, AINR1+
AINL3, AINR3
AINL4, AINR4
AINL5, AINR5
AINL6, AINR6
AINL2-, AINR2-
AINL2+, AINR2+
AINL7, AINR7
AINL8, AINR8
AINL9, AINR9
ADC1
SDATA
ASEL1[2:0] PSAD1
ASEL2[2:0] PSAD2
SDATA
ADC2
VREF
AVDD
VREGH
VCOM
VREFL
AVSS
BVSS
SWA1
SWI1
OUT1E_N
SDATO1
IF
SDIN
SDATO2
OUT2E_N
SWI2
SWA2
pull down
Hi-z
@ CS ="H"
ctrl reg sw
2oins
AOUTL1+
AOUTL1-
AOUTR1+
AOUTR1-
DAC1
SWAA1
SWD1
PSDA1
SDATI1
AOUTL2+
AOUTL2-
AOUTR2+
AOUTR2-
DAC2
SWAA2
AWD2
PSDA2
SDATI2
AOUTL3+
AOUTL3-
AOUTR3+
AOUTR3-
DAC3
SWAA3
AWD3
PSDA3
SDATI3
DVDD
DVSS
SMUTE
SMUTE
INIT_RESET
S_RESET
CS
CONTROLLER
SCLK
SI
SO
TESTI
MCLK
LRCLK
BITCLK
RQ


48 AINL+
47 AINL-
46 AINR+
45 AINR-
44 AVSS
43 VREFL
42 VCOM
41 VREFH
40 AVDD
39 AVDD
38 AVSS
37 LFLT
1 EESEL
2 JX0 / SDIN4A
3 SDIN3 / JX1
4 SDIN2 / JX2
5 SDIN1
6 CKS1
7 BVSS
8 DVSS
9 DVDD
10 SDOUT4
11 SDOUT3
12 SDOUT2
36 CKS0
35 INIT_RESET
34 S_RESET
33 RQ
32 SCLK
31 S1
30 S0
29 SMODE
28 DVDD
27 DVSS
26 XT1
25 XT0
13 SDOUT1
14 BITCLK_1 / FEADR
15 LRCLK_1 / LRCLK
16 BITCLK_0 / BITCLK
17 LRCLK_0 / EECS
18 RDY / EES1
19 DRDY / EECK
20 CS / EES0
21 DVDD
22 DVSS
23 CLK01
24 CLK02 / EEST

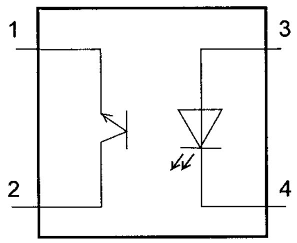
*AK7730AVT


1
2
3
4
5
6
7
8
9
10
11
12
EESEL
JX0/SDIN4A
SDIN3/JX1
SDIN2/JX2
SDIN1
CKS1
BVSS
DVSS1
DVDD1
SDOUT4
SDOUT3
SDOUT2
13
14
15
16
17
18
19
20
21
22
23
24
SDOUT1
BITCLK_I
LRCLK_I
BITCLK_O
LRCLK_O
RDY
DRDY
CS
DVDD2
DVSS2
CLKO1
CLKO2
25
26
27
28
29
30
31
32
33
34
35
36
XTO
XTI
DVSS3
DVDD3
SMODE
SO
SI
SCLK
RQ
S_RESET
INIT_RESET
CKS0
48
47
46
45
44
43
42
41
40
39
38
37
AINL+
AINL−
AINR+
AINR−
AVSS2
VREFL
VCOM
VREFH
AVDD2
AVDD1
AVSS1
LFLT

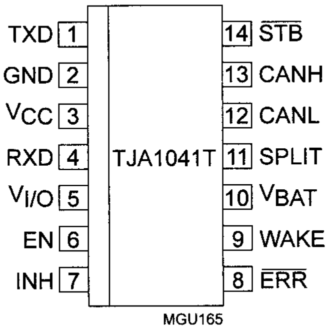
● Block Diagram


AINL+
AINL-
AINR+
AINR-
VREFH
VREFL
VCOM
ADC
SDATA
JX0/SDIN4A
SDIN3/JX1
SDIN2/JX2
SDIN1
SWQA
SWQ4
SWQ3
SWQ2
SWQ1
SDOUT4
SDOUT3
SDOUT2
SDOUT1
SWIA
DSP
SDIN4
SDIN3
SDIN2
SDIN1
SWJX0
SWJX1
SWJX2
JX0
JX1
JX2
RQ
SCLK
SI
SO
RDY
DRDY
*DRDY
LFLT
CKS1
CKS0
XT1
XT0
LFLT PLL&DRIVER
CLK01
CLK02
COUNTROLLER
CS
SMODE
LRCLK_I
LRCLK_O
BITCLK_I
BITCLK_O
S_RESET
INIT_RESET
EESEL
EEPIF
EESI
EECK
EECS
EESO
EEAD
EESET
*CS
A
B
C
Q

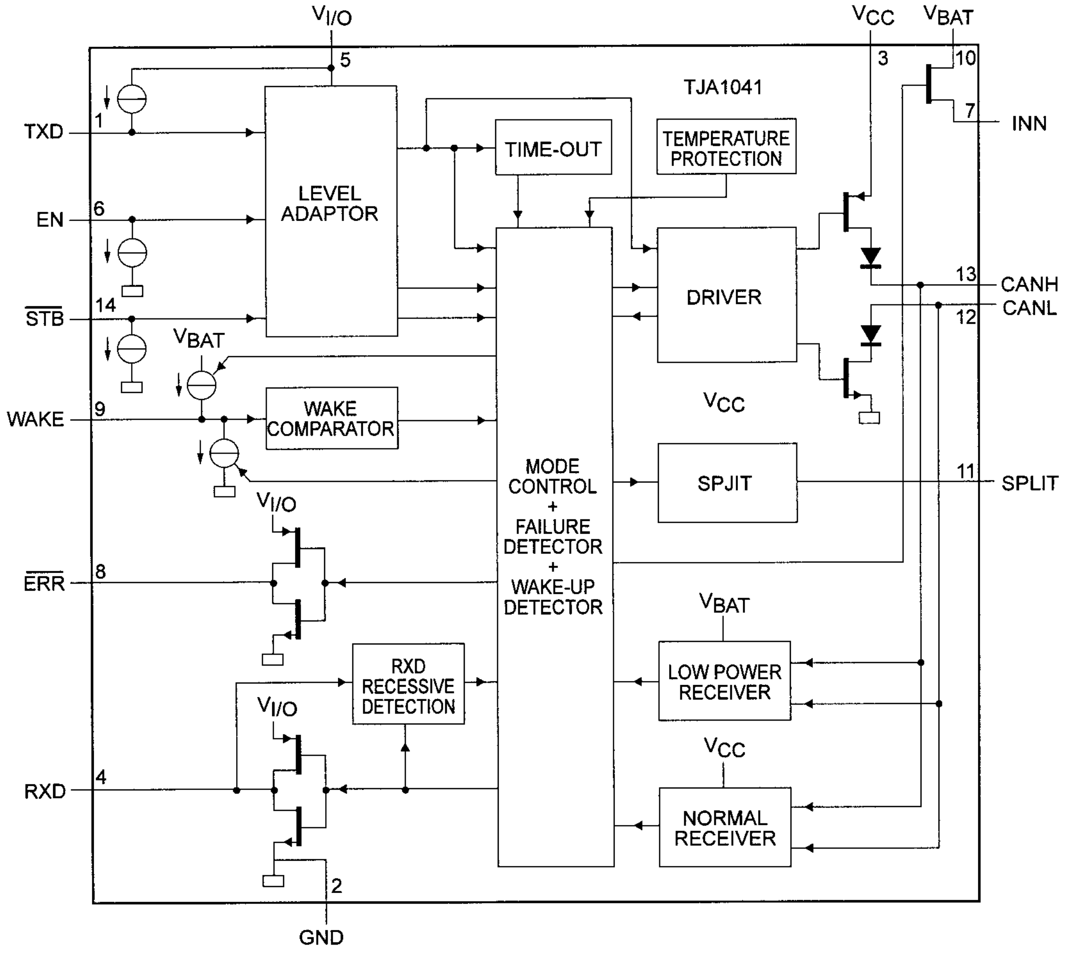
GP2S700HCP



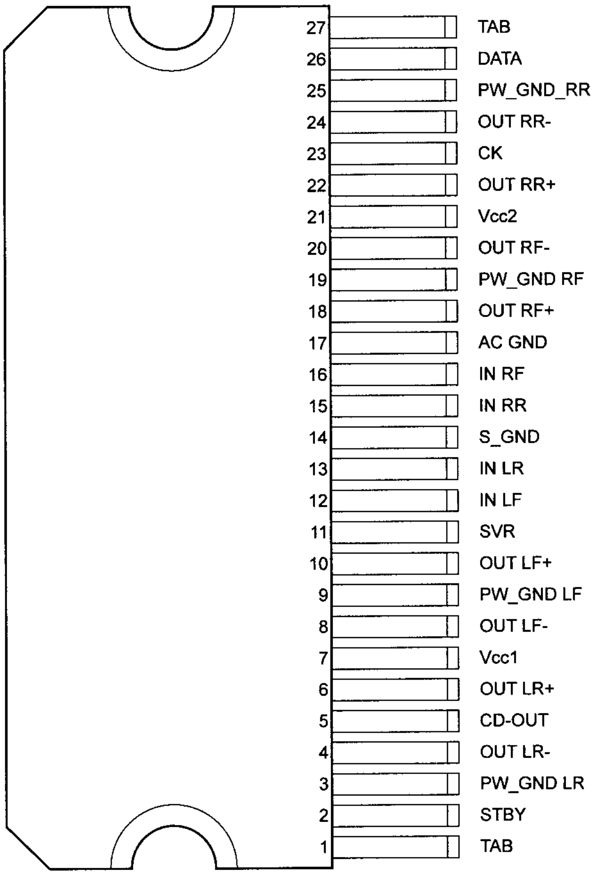
TJA1041T


TXD 1
GND 2
VCC 3
RXD 4
VI/O 5
EN 6
INH 7
TJA1041T
14 STB
13 CANH
12 CANL
11 SPLIT
10 VBAT
9 WAKE
8 ERR
MGU165

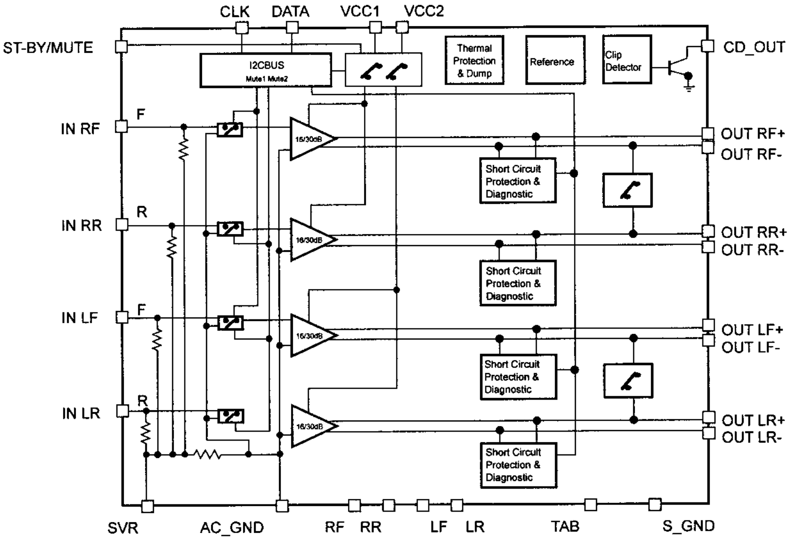
● Block Diagram


VI/O
5
VCC
VBAT
3
10
TJA1041
7
INN
TXD
1
LEVEL ADAPTOR
TIME-OUT
TEMPERATURE PROTECTION
EN
6
STB
14
DRIVER
13
CANH
CANL
12
VBAT
WAKE
9
WAKE COMPARATOR
VCC
MODE CONTROL + FAILURE DETECTOR + WAKE-UP DETECTOR
SPJIT
11
SPLIT
VI/O
ERR
8
VBAT
LOW POWER RECEIVER
RXD RECESSIVE DETECTION
VI/O
VCC
RXD
4
NORMAL RECEIVER
2
GND

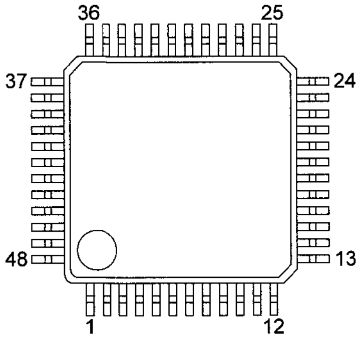
*TDA7563


27 TAB
26 DATA
25 PW_GND_RR
24 OUT RR-
23 CK
22 OUT RR+
21 Vcc2
20 OUT RF-
19 PW_GND RF
18 OUT RF+
17 AC GND
16 IN RF
15 IN RR
14 S_GND
13 IN LR
12 IN LF
11 SVR
10 OUT LF+
9 PW_GND LF
8 OUT LF-
7 Vcc1
6 OUT LR+
5 CD-OUT
4 OUT LR-
3 PW_GND LR
2 STBY
1 TAB

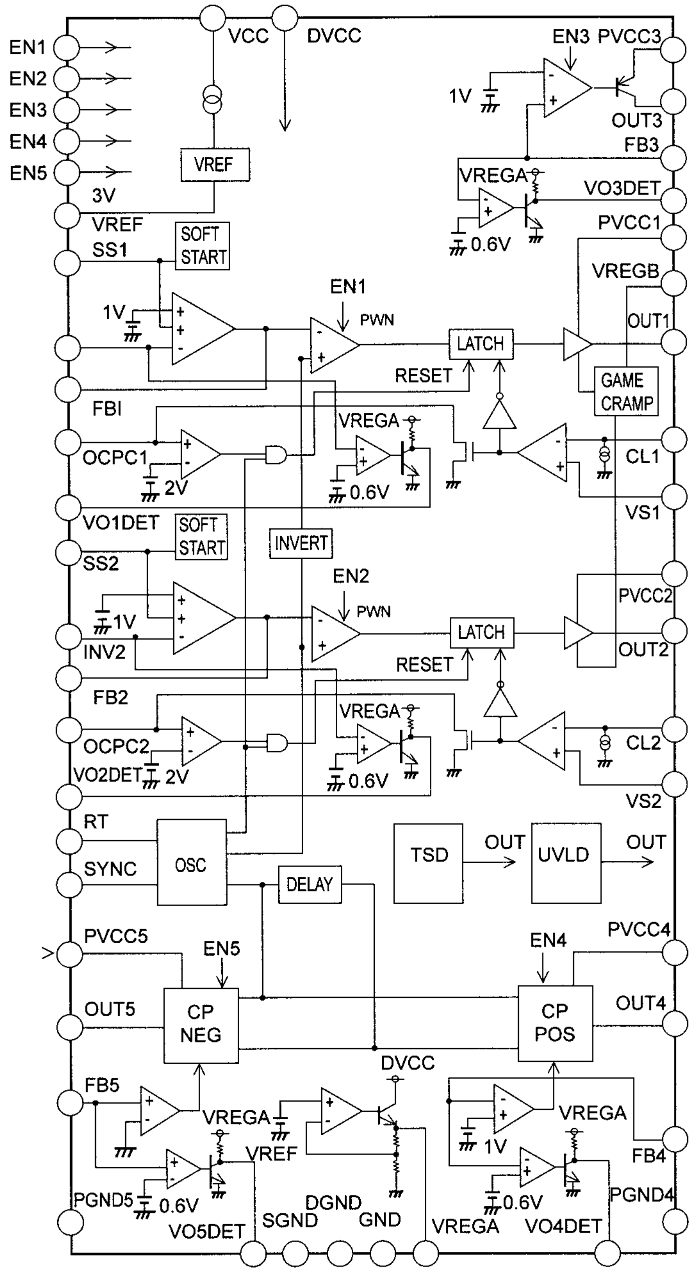
● Block Diagram


CLK
DATA
VCC1
VCC2
ST-BY/MUTE
I2CBUS
Mute1 Mute2
Thermal Protection & Dump
Reference
Clip Detector
CD_OUT
IN RF
F
IN RR
R
IN LF
F
IN LR
R
16/30dB
16/30dB
16/30dB
16/30dB
Short Circuit Protection & Diagnostic
Short Circuit Protection & Diagnostic
Short Circuit Protection & Diagnostic
Short Circuit Protection & Diagnostic
OUT RF+
OUT RF-
OUT RR+
OUT RR-
OUT LF+
OUT LF-
OUT LR+
OUT LR-
SVR
AC_GND
RF
RR
LF
LR
TAB
S_GND

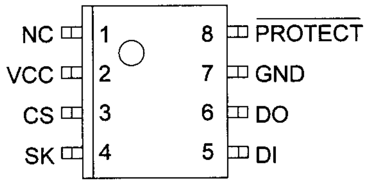
*BD6171KV


36
25
37
24
48
13
1
12

● Block Diagram

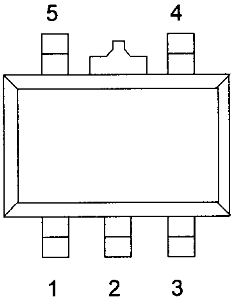

VCC
DVCC
EN1
EN2
EN3
EN4
EN5
3V
VREF
VREF
SS1
SOFT START
EN3 PVCC3
1V
OUT3
FB3
VREGA
VO3DET
0.6V
PVCC1
VREGB
EN1
PWN
1V
LATCH
OUT1
RESET
GAME CRAMP
FBI
VREGA
OCPC1
2V
0.6V
CL1
VS1
VO1DET
SOFT START
INVERT
SS2
EN2
PWN
PVCC2
1V
LATCH
OUT2
INV2
RESET
FB2
VREGA
OCPC2
CL2
VO2DET
2V
0.6V
VS2
RT
SYNC
OSC
DELAY
TSD
OUT
UVLD
OUT
PVCC5
EN5
EN4
PVCC4
OUT5
CP NEG
CP POS
OUT4
DVCC
FB5
VREGA
VREGA
VREF
1V
FB4
PGND5
0.6V
0.6V
PGND4
VO5DET
SGND
DGND
GND
VREGA
VO4DET

*S-29221BROI-J8T1

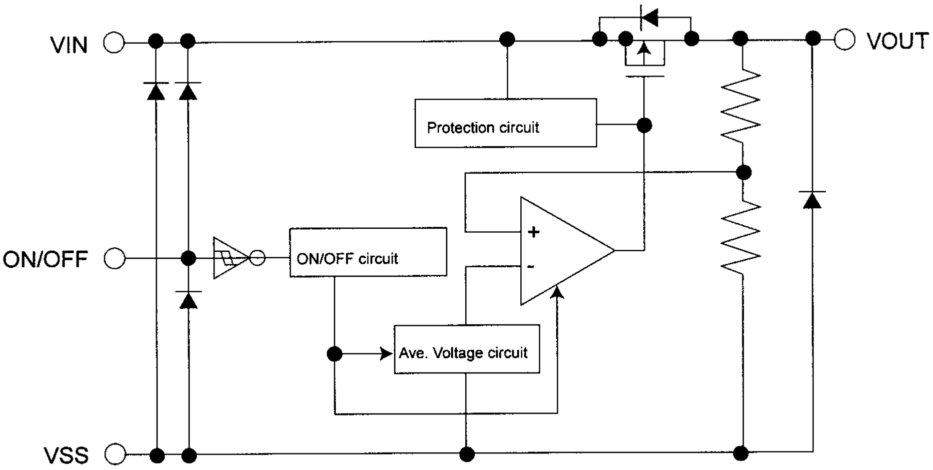

NC
VCC
CS
SK
1
2
3
4
8
7
6
5
PROTECT
GND
DO
DI

Pin No.	Pin Name	Function
1	NC	No connection
2	VCC	Power supply
3	CS	Chip select input
4	SK	Serial clock input
5	DI	Serial data input
6	DO	Serial data output
7	GND	GND
8	PROTECT	Memmory protect control input

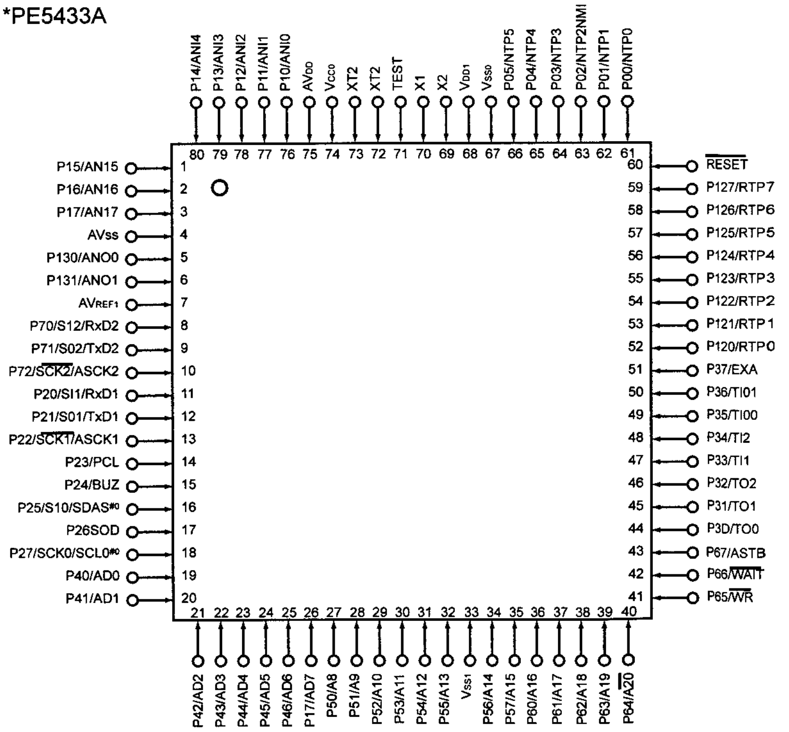
*S-1131B25UC-N4K



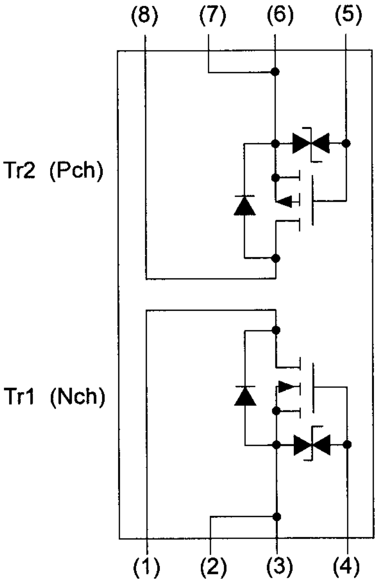
● Block Diagram


VIN
VOUT
Protection circuit
+
-
ON/OFF
ON/OFF circuit
Ave. Voltage circuit
VSS

*PE5433A


P14/ANI4
P13/ANI3
P12/ANI2
P11/ANI1
P10/ANI0
AVDD
VCC0
XT2
XT2
TEST
X1
X2
VDD1
VSS0
P05/NTP5
P04/NTP4
P03/NTP3
P02/NTP2NMI
P01/NTP1
P00/NTP0
80 79 78 77 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61
P15/AN15 1
P16/AN16 2
P17/AN17 3
AVss 4
P130/ANO0 5
P131/ANO1 6
AVREF1 7
P70/S12/RxD2 8
P71/S02/TxD2 9
P72/SCK2/ASCK2 10
P20/SI1/RxD1 11
P21/S01/TxD1 12
P22/SCK1/ASCK1 13
P23/PCL 14
P24/BUZ 15
P25/S10/SDAS#0 16
P26SOD 17
P27/SCK0/SCL0#0 18
P40/AD0 19
P41/AD1 20
60 RESET
59 P127/RTP7
58 P126/RTP6
57 P125/RTP5
56 P124/RTP4
55 P123/RTP3
54 P122/RTP2
53 P121/RTP1
52 P120/RTP0
51 P37/EXA
50 P36/TI01
49 P35/TI00
48 P34/TI2
47 P33/TI1
46 P32/TO2
45 P31/TO1
44 P3D/TO0
43 P67/ASTB
42 P66/WAIT
41 P65/WR
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
P42/AD2
P43/AD3
P44/AD4
P45/AD5
P46/AD6
P17/AD7
P50/A8
P51/A9
P52/A10
P53/A11
P54/A12
P55/A13
VSS1
P56/A14
P57/A15
P60/A16
P61/A17
P62/A18
P63/A19
P64/A20

TS8M1

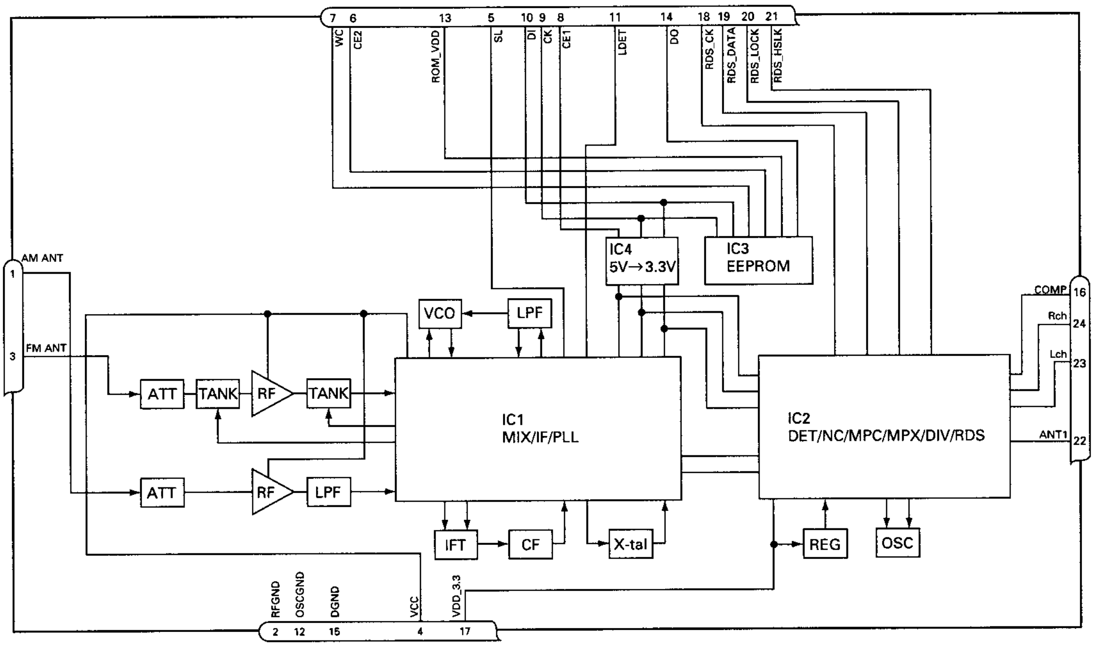

(8)
(7)
(6)
(5)
Tr2 (Pch)
Tr1 (Nch)
(1)
(2)
(3)
(4)

● Pin Functions(PE5433A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	NC	I		Not used
2	NC	I		Not used
3	TMPSEN	I		Temperature detection input
4	AVss			AVss
5	NC	O		Not used
6	BSTDS	O		Back light boost analog output
7	AVref1			AVref
8	RXD/TS1	I		Data input from system microcomputer/Test data mode input
9	TXD/TS0	O	C	Data output to system microcomputer/Test mode mode data input
10	TSCK	O	C	Test mode clock output
11	MVIPW	O	C	Video power supply control output
12	OSDDK	O	C	OSD data output
13	OSDCK	O	C	OSD clock output
14	OSDCS	O	C	OSD chip select output
15	NC	O	C	(OPEN)
16	SDA	I/O	C	I2C-bus data input/output
17	NC	O	C	(OPEN)
18	SCL	O	C	I2C-bus clock output
19	OVICHK	I	C	Over-current check input
20	EPRRST	I		EEPROM data initialization mode input
21	XIN	I		EEPROM data setup mode input
22	Vcc1-1	I		Vcc
23-28	NC	O	C	(OPEN)
29	ICRES	O		I2C-bus connection IC reset output
30, 31	NC	O	C	(OPEN)
32	MFLPW	O	C	Back light power supply control output
33	Vss1			GND
34-37	NC	O	C	(OPEN)
38	ROMDATA	O	C	ROM collection output
39	ROMCLK	O	C	ROM collection output
40	ROMCS	O	C	ROM collection output
41-43	NC	O	C	(OPEN)
44	DIMDITY	O	C	PWM output for back light luminosity adjustment
45	ILOMOUT	O	C	PWM output for LED luminosity adjustment
46	EPRCS	O	C	EEPROM chip select output
47	EPRCK	O	C	EEPROM serial clock output
48	EPRDO	O	C	EEPROM serial data output
49	EPRDI	I		EEPROM serial data input
50	EPRPROT	O	C	EEPROM memory protect output
51	TESTIN	I		Chip test input
52-58	NC	O	C	(OPEN)
59	LCDTYPE	I		LCD type check input
60	RESET	I		Reset input
61	REMIN	I		Remote control input
62	VDDSENS	I		Vdd sense input
63-66	NC	O	C	(OPEN)
67	Vss0			GND
68	Vdd1			Vdd
69	X2			Crystal oscillator connection pin
70	X1			Crystal oscillator connection pin
71	TEST/Vpp	I		Test input
72	XT2			Not used
73	XT1			Not used
74	Vdd			Vdd
75	AVdd			AVdd
76-80	KDT0-4	I		Analog key data input

Format	Meaning
C	CMOS

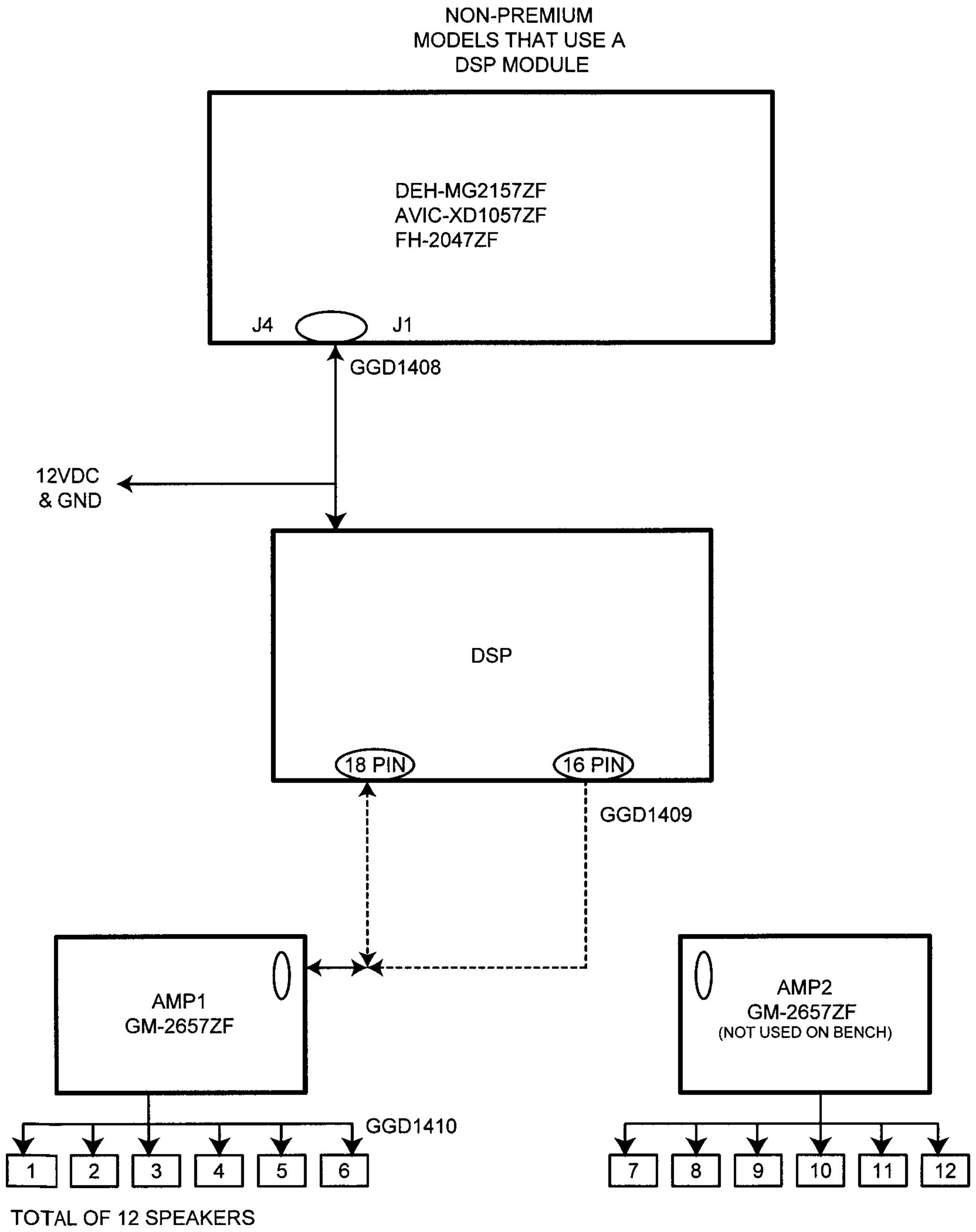
● FM/AM Tuner Unit


7 6 13 5 10 9 8 11 14 18 19 20 21
WC
CE2
ROM_VDD
SL
DI
CK
CE1
LDET
DO
RDS_CK
RDS_DATA
RDS_LOCK
RDS_HSLK
AM ANT
1
FM ANT
3
IC4
5V→3.3V
IC3
EEPROM
VCO
LPF
ATT
TANK
RF
TANK
IC1
MIX/IF/PLL
IC2
DET/NC/MPC/MPX/DIV/RDS
COMP
16
Rch
24
Lch
23
ANT1
22
ATT
RF
LPF
IFT
CF
X-tal
REG
OSC
RFGND
OSCGND
DGND
VCC
VDD_3.3
2 12 15 4 17

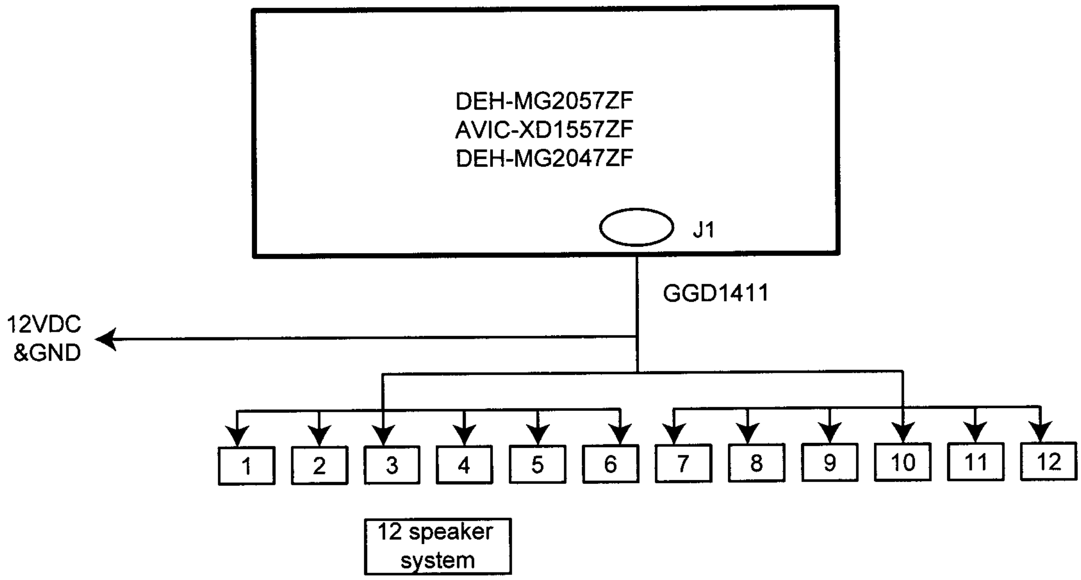
No.	Symbol	I/O	Explain	
1	AMANT	I	AM antenna input	AM antenna input high impedance AMANT pin is connected with an all antenna by way of 33µH. (LAU type inductor) A series circuit including an inductor and a resistor is connected with RF ground for the countermeasure against the hum of power transmission line.
2	RFGND		RF ground	Ground of antenna block
3	FMANT	I	FM antenna input	Input of FM antenna 75Ω Surge absorber is necessary.
4	VCC		power supply	The power supply for analog block. D.C 8.4V ± 0.3V
5	SL	O	signal level	Output of FM/AM signals level
6	CE2	I	chip enable-2	Chip enable for EEPROM "Low" active
7	WC	I	write control	You can write EEPROM, when EEPROM write control is "Low". Ordinary non connection
8	CE1	I	chip enable-1	Chip enable for AF•RF "High" active
9	CK	I	clock	Clock data input
10	DI	I	data in	Data input
11	LDET	O	lock detector	"Low" active
12	OSCGND		osc ground	Ground of oscillator block
13	ROM_VDD		power supply	Power supply for EEPROM pin 13 is connected with a power supply of micro computer.
14	DO	O	data out	Data output
15	DGND		digital ground	Ground of digital block
16	COMP	O	composite output	FM composite signal output.
17	VDD_3.3		power supply	The power supply for digital block. 3.3V ± 02V
18	RDS_CK	O	RDS clock	Output of RDS clock(2.5V)
19	RDS_DATA	O	RDS data	Output of RDS data(2.5V)
20	RDS_LOCK	O	RDS lock	Output unit "High" active(2.5V) (RDS_LOCK turns over by the external transistor. "Low" active)
21	RDS_HSLK	O	RDS high speed lock	Output unit "High" active(2.5V)(RDS_HSLK turns over by the external transistor. "Low" active)
22	ANT1		diversity antenna control	Antenna switch control signal output. "High" : MAIN, "Low"=SUB
23	L ch	O	L channel output	FM stereo "L-ch" signal output or AM audio output
24	R ch	O	R channel output	FM stereo "R-ch" signal output or AM audio output

7.3 EXPLANATION

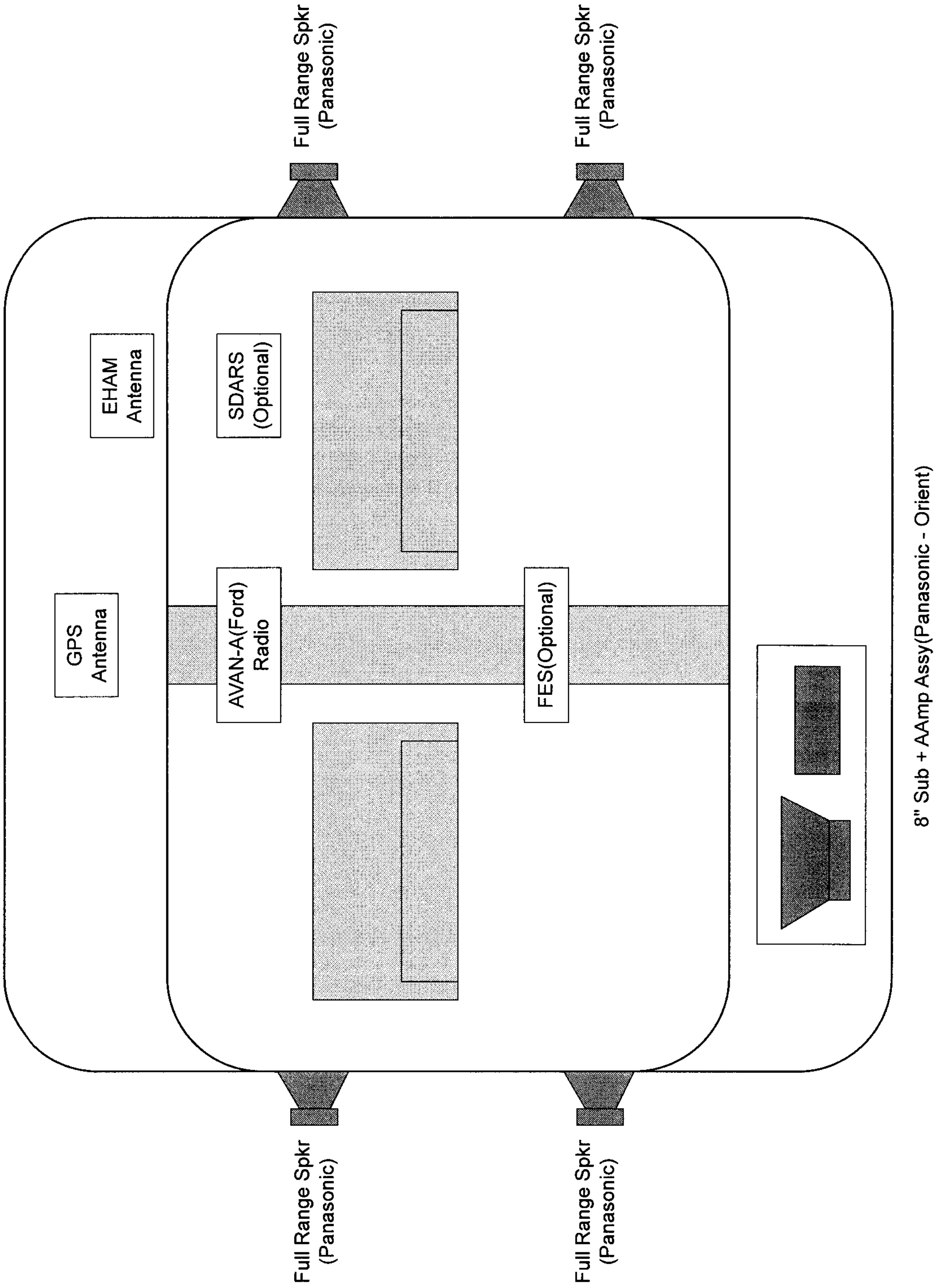
7.3.1 SYSTEM BLOCK DIAGRAM


NON-PREMIUM
MODELS THAT USE A
DSP MODULE
DEH-MG2157ZF
AVIC-XD1057ZF
FH-2047ZF
J4
J1
GGD1408
12VDC
& GND
DSP
18 PIN
16 PIN
GGD1409
AMP1
GM-2657ZF
AMP2
GM-2657ZF
(NOT USED ON BENCH)
GGD1410
1
2
3
4
5
6
7
8
9
10
11
12
TOTAL OF 12 SPEAKERS

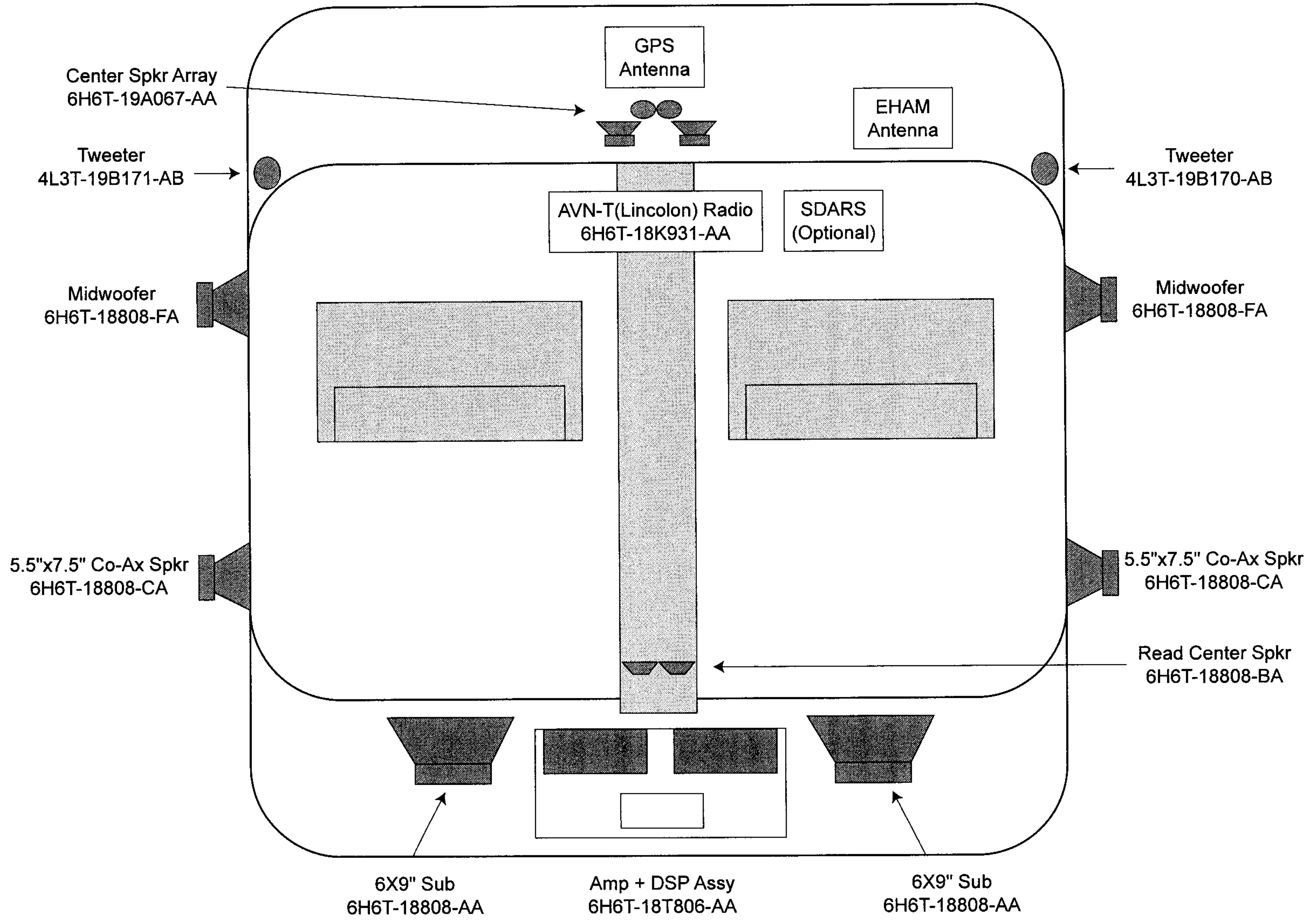
SUPERMAN, ULTRAMAN AND POPEYE
PREMIUM MODELS


DEH-MG2057ZF
AVIC-XD1557ZF
DEH-MG2047ZF
J1
GGD1411
12VDC &GND
1
2
3
4
5
6
7
8
9
10
11
12
12 speaker system

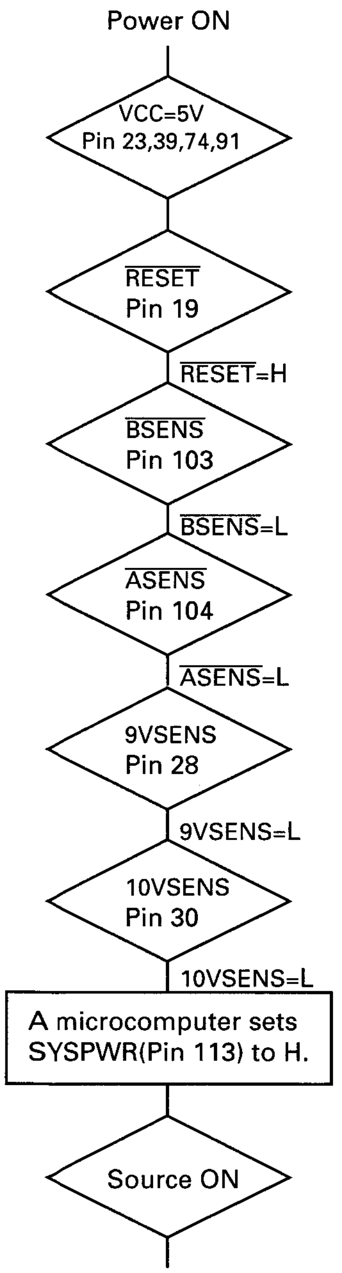
AVN Audiophile System Configration


Full Range Spkr (Panasonic)
Full Range Spkr (Panasonic)
EHAM Antenna
SDARS (Optional)
GPS Antenna
AVAN-A(Ford) Radio
FES(Optional)
8" Sub + AAmp Assy(Panasonic - Orient)
Full Range Spkr (Panasonic)
Full Range Spkr (Panasonic)

AVN THX System Configration


GPS Antenna
Center Spkr Array 6H6T-19A067-AA
EHAM Antenna
Tweeter 4L3T-19B171-AB
Tweeter 4L3T-19B170-AB
AVN-T(Lincolon) Radio 6H6T-18K931-AA
SDARS (Optional)
Midwoofer 6H6T-18808-FA
Midwoofer 6H6T-18808-FA
5.5"x7.5" Co-Ax Spkr 6H6T-18808-CA
5.5"x7.5" Co-Ax Spkr 6H6T-18808-CA
Read Center Spkr 6H6T-18808-BA
6X9" Sub 6H6T-18808-AA
Amp + DSP Assy 6H6T-18T806-AA
6X9" Sub 6H6T-18808-AA

7.3.2 OPERATIONAL FLOW CHART


Power ON
VCC=5V
Pin 23,39,74,91
RESET
Pin 19
RESET=H
BSENS
Pin 103
BSENS=L
ASENS
Pin 104
ASENS=L
9VSENS
Pin 28
9VSENS=L
10VSENS
Pin 30
10VSENS=L
A microcomputer sets
SYSPWR(Pin 113) to H.
Source ON

Completes power-on operation.
(After that, proceed to each source operation)

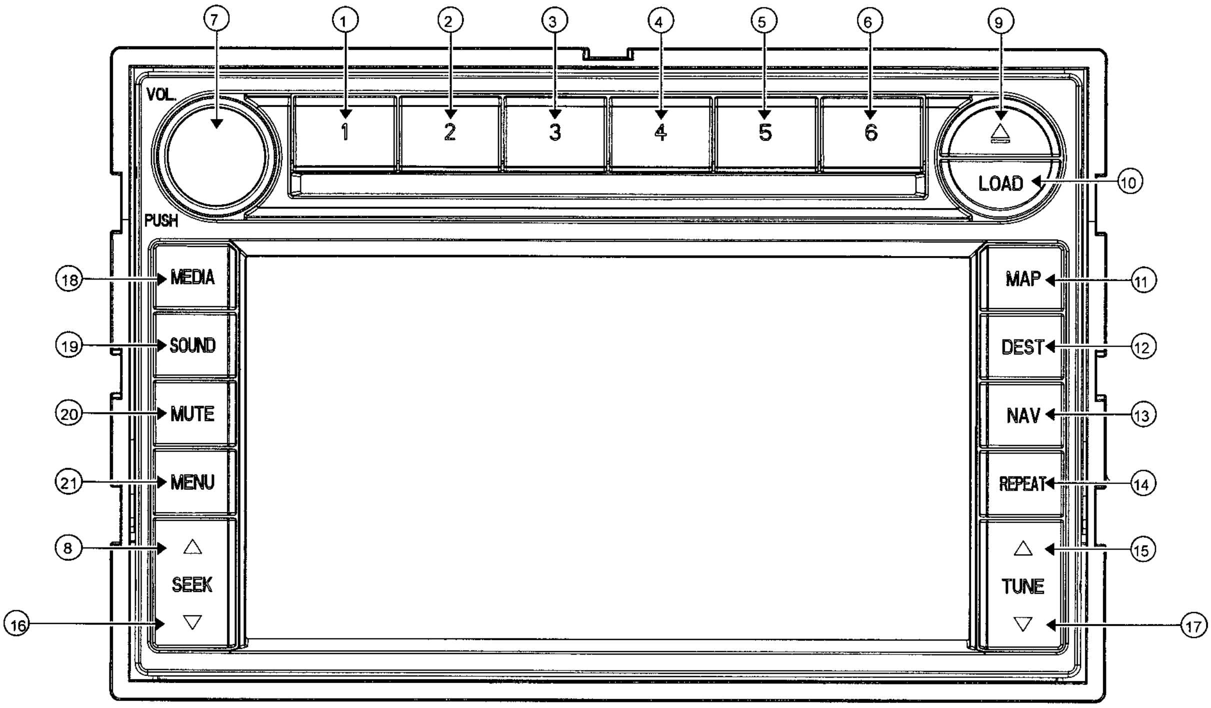
7.4 FACTORY SETTINGS

● Internal multi-CD shipping position mode setting

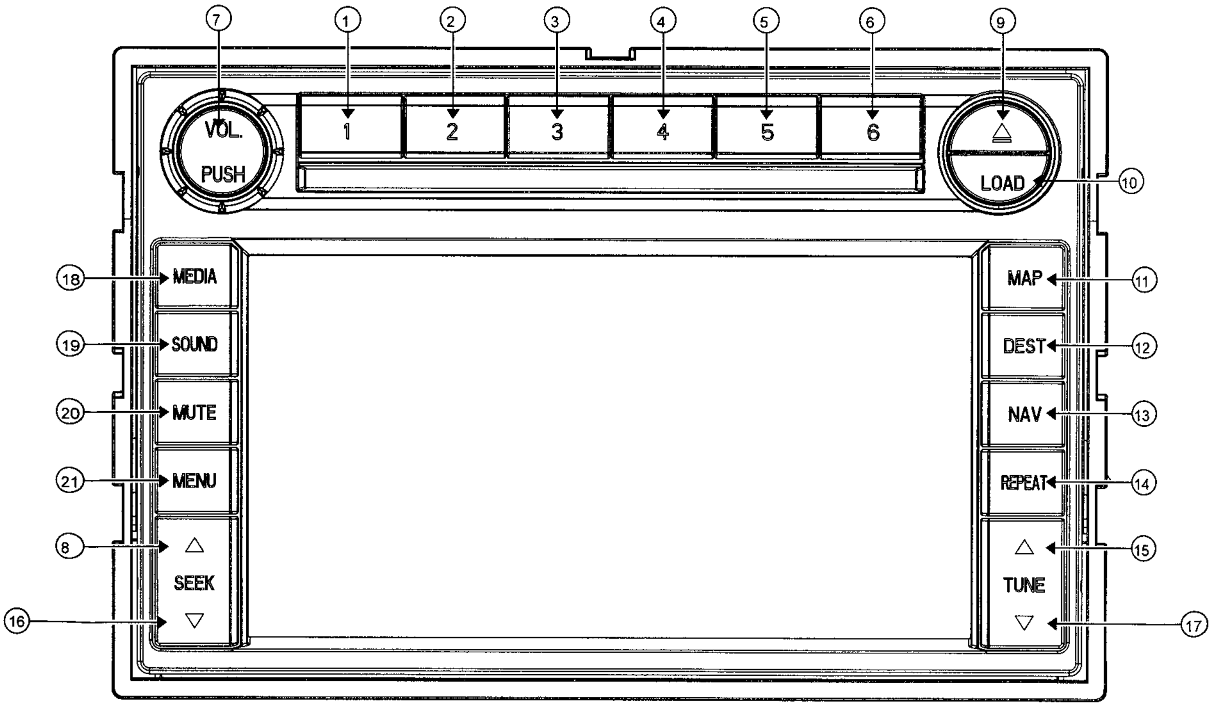
Press "MUTE" and "3" buttons at the same time to turn BUP and ACC on.
With condition, the CD6 mechanism starts initialization and then goes into transportation mode.
Once the mechanism entered transportation mode, the mechanism feeps 5 times. Check the feeps.

8. OPERATIONS

● AVIC-XD1057ZF/UC,AVIC-XD1957ZF/UC


⑦
①
②
③
④
⑤
⑥
⑨
VOL.
PUSH
1
2
3
4
5
6
LOAD
⑩
⑱ MEDIA
⑲ SOUND
⑳ MUTE
㉑ MENU
⑧
SEEK
⑯
MAP ⑪
DEST ⑫
NAV ⑬
REPEAT ⑭
⑮
TUNE
⑰

● AVIC-XD1557ZF/UC


⑦
①
②
③
④
⑤
⑥
⑨
VOL.
PUSH
1
2
3
4
5
6
LOAD
⑩
⑱ MEDIA
⑲ SOUND
⑳ MUTE
㉑ MENU
⑧
SEEK
⑯
MAP ⑪
DEST ⑫
NAV ⑬
REPEAT ⑭
⑮
TUNE
⑰

■TUNER

No.	function	key & trigger	disp
1	SEEK TUNING	Press SEEK▲⑧ / SEEK▼ ⑯ button.	
2	MANUAL TUNING	Press TUNE▲⑮ / TUNE▼⑰ button.	
3	SCAN	Press MEDIA button⑱ and touch panel button "SCAN" in the UP direction.	Frequency indication blinks
4	PRESET CH. RECALL	Press "1" - "6" button① - ⑥ less than 1.5 sec and the stored frequency in the preset is recalled and received.	
5	PRESET CH. MEMORY	Press "1" - "6" button① - ⑥ more than 1.5 sec and stored the currently received frequency. Same as touch panel operation.	
6	AUTOSET PRESET	Preset AUDIBLE STATIONS automatically by Pressing MEDIA button⑱ and press touch panel button "AUTO SET PRESETS".	"AUTO"

■RBDS

No.	function	key & trigger	disp
1	RBDS ON / OFF	Press MEDIA⑱ button and touch panel button "RDS" is ON / OFF RBDS.	
2	SET PTY	Press MEDIA⑱ button, enter PTY group and select menu. <PTY menu> ALL ADULT HITS CLASSIC ROCK CLASSICAL COLLEGE COUNTRY EASY LISTENING INFOMATION JAZZ NEWS OLDIES PUBLIC R&B RELIGIOUS ROCK SOFT ROCK SPORTS TALK TOP 40 WEATHER	
3	PTY SEEK	Press SEEK▲⑧ / SEEK▼ ⑯ button.	
4	PTY SCAN	Pressed touch panel button "RDS" and "PTY", Press touch panel button "SCAN" and PTY SCAN starts in the UP direction.	
5	PTY AUTOSET	Pressed touch panel button "RDS" and "PTY", Press touch panel button "AUTOSET PRESETS".	

■INTERNAL CD MULTI

No.	function	key & trigger	disp
1	EJECT	One-Disc EJECT Press EJECT button⑨ less than 1.5 sec. Select Disc number button 1-6 ①-⑥ and the selected Disc will be ejected. All-Disc EJECT Press EJECT button⑨ more than 1.5 sec. All Discs will be ejected one by one.	SELECT SLOT ↓ MOVING TO # ↓ EJECTING CD# ↓ REMOVE CD <ALL EJECT > AUTO EJECT ↓ MOVING TO # ↓ EJECTING CD# ↓ REMOVE CD# ↓ EJECT DONE
2	LOAD	One-Disc LOAD Press LOAD button⑩ less than 1.5 sec. Select Disc number button 1-6 ①-⑥ and load Disc. All-Disc LOAD Press LOAD button⑩ more than 1.5 sec. Load Discs one by one into all slots.	SELECT SLOT ↓ MOVING TO # ↓ LOAD CD# ↓ LOADING CD# ↓ LOAD DONE <ALL LOAD> MOVING TO # ↓ AUTO LOAD # ↓ LOADING CD# ↓ LOAD DONE
3	FF / REW	Pressing touch panel button ◄◄ (REW) / ►► (FF) .	
4	TARCK SEARCH	Press SEEK▲⑧ / SEEK▼ ⑯ button.	
5	SCAN	Press touch panel button "SCAN" to turn ON / OFF SCAN mode. Each music is played for 8 seconds from the beginning when SCAN mode is ON.	Track indication blinks.
6	SHUFFLE	SHUFFLE mode ON / OFF by pressing touch panel button "SHUFFLE". A new track is selected at random when SHUFFLE mode is ON.	Shuffle indication turns on.
7	DISC SELECTION	Select Disc by ①-⑥ button.	The DISC number under reproduction becomes yellow.
8	COMPRESSION	Compression ON / OFF by pressing touch panel button "COMP".	
9	CONTINUOUS PLAY	When CD reaches the end of the last track of Disc, CD continues to play from the first track of next Disc.	
10	AUTOMATIC RELOAD	CD is automatically reloaded when CD is left at EJECT	LOADING CD #

■INTERNAL CD MULTI MP3

No.	function	key & trigger	disp
1	EJECT	One-Disc EJECT Press EJECT button⑨ less than 1.5 sec. Select Disc number button 1-6 ①-⑥ and the selected Disc will be ejected. All-Disc EJECT Press EJECT button⑨ more than 1.5 sec. All Discs will be ejected one by one.	SELECT SLOT ↓ MOVING TO # ↓ EJECTING CD # ↓ REMOVE CD # <ALL EJECT > AUTO EJECT ↓ MOVING TO # ↓ EJECTING CD # ↓ REMOVE CD # ↓ EJECT DONE
2	LOAD	One-Disc LOAD Press LOAD button⑩ less than 1.5 sec Select Disc number button 1-6 ①-⑥ and load Disc All-Disc LOAD Press LOAD button⑩ more than 1.5 sec. Load Discs one by one into all slots.	SELECT SLOT ↓ MOVING TO # ↓ LOAD CD # ↓ LOADING CD # ↓ LOAD DONE <ALL LOAD> MOVING TO # ↓ LOAD CD # ↓ AUTO LOAD # ↓ LOAD DONE
3	FLAT FILE / FOLDER MODE	Adjust by ▲⑮ / ▼⑰ button FLAT FILE Mode : Play all track in the disc. FOLDER MODE : Play the track in the selected FOLDER.	A folder mark is displayed beside MP3 display at the time of FOLDER mode.
4	FF / REW	Pressing touch panel button "FF ►►" / "REW ◄◄" .	
5	TRACK SEARCH	Press SEEK▲⑧ / SEEK▼ ⑯ button.	
6	FOLDER SEARCH	Press TUNE▲⑮ / TUNE▼⑰ button.	
7	SCAN	Press touch panel button "SCAN" to turn ON / OFF SCAN mode. Each music is played for 8 seconds from the beginning when SCAN mode is ON. When FLAT FILE Mode, SCAN in the disc. When FOLDER Mode, SCAN in the FOLDER.	Track indication blinks.
8	SHUFFLE	Press MEDIA button⑱ and touch panel button "SHUFFLE" to turn ON / OFF SHUFFLE mode. A new track is selected at random when SHUFFLE mode is ON. * When FLAT FILE Mode, SHUFFLE in the disc. When FOLDER Mode, SHUFFLE in the FOLDER.	SHUFFLE indication turns on.
9	COMPRESSION	Compression ON/OFF by pressing touch panel button "COMP".	
10	CONTINUOUS PLAY	When CD raches the end of last track of disc, CD continues to play from the first track of next disc.	DISC # FOLDER ### TRACK ###
11	AUTOMATIC RELOAD	CD is automatically reloaded when CD is left at EJECT position for longer than 15 sec.	LOADING CD#

■INTERNAL CD MULTI MP3

No.	function	key & trigger	disp
12	DISPLAY	Press MEDIA button⑱ and touch panel button "TEXT" and the following item is displayed. •FOLDER : Display FOLDER NAME •FILE : Display FILE NAME Touch TEXT once more and the following item is displayed. •ARTIST : Display ARTIST NAME •TITLE : Display TITLE NAME Touch ◄ / ► to change page, if 20 or more characters are available.	

A

B

C

D

E

F

● Jigs List

Name	Jig No.	Remarks
Test Disc	TCD-784	Checking the grating(CD)
L.P.F.		Checking the grating (Two pieces)(CD)
Test Disc	GGV1018	Skew adjustment(DVD)
Screw lock	GYL1001	Skew adjustment(DVD)
Test Disc	GGV1240	Navigation test disc
Flexible extension	GGD1321	45-Pin flexible extension
Flexible extension	GGD1441	60-Pin flexible extension
Flexible extension	GGD1170	40-Pin flexible extension
Flexible extension	GGD1160	18-Pin flexible extension
Flexible extension	GGD1442	30-Pin extension cable
Flexible extension	GGD1443	14-Pin extension cable
Extension Cord	GGD1408	For system confirmation
Extension Cord	GGD1409	For system confirmation
Extension Cord	GGD1410	For system confirmation
Extension Cord	GGD1411	For system confirmation

● Grease List

Name	Remarks
GEM1024	
GEM1045	
GEM1043	
GEM1050	

● CLEANING

Before shipping out the product, be sure to clean the following portions by using the prescribed cleaning tools:

Portions to be cleaned	Cleaning tools
DVD,CD pickup lenses	Cleaning liquid : GEM1004 Cleaning paper : GED-008

Portions to be cleaned	Cleaning tools
Fans	Cleaning paper : GED-008